

# Instruction Manual for LumaSoft Gas Software 7800 and 7850

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# **Software Registration**

May 2009

## **LumaSense Software Registration - LumaSoft**

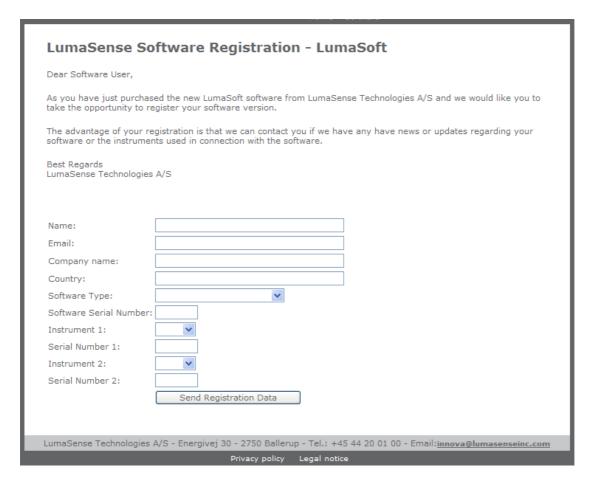
Dear Software User,

As you have just purchased the new LumaSoft software from LumaSense Technologies A/S we would like you to take the opportunity to register your software version.

The advantage of your registration is that we can contact you if we have any have news or updates regarding your software or the instruments used in connection with the software.

Best Regards LumaSense Technologies A/S

Kindly follow below link for your LumaSoft registration: <a href="http://www.lumasense.dk/SoftwareRegistration.lumasoftform.0.html">http://www.lumasense.dk/SoftwareRegistration.lumasoftform.0.html</a>



# **Safety Considerations**

May 2009

## **Safety Considerations.**

Through out this manual Monitor is used for: Photoacoustic Multi-gas Monitor – INNOVA 1314 Photoacoustic Field Gas-Monitor – INNOVA 1412 LumaSense SF6 Leak Detector - 3434.

The Monitor complies with:

• EN/IEC 61010-1, 2<sup>nd</sup> (2001): Safety requirements for electrical equipment for measurement, control and laboratory use.



- Can/CSA-C22.2 No. 1010.1-92 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
- UL Std. No. 61010A-1 (1st Edition) Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

To ensure safe operation and retain the Monitor in safe condition, note the following:

#### **EXPLOSION HAZARD!**

TO AVOID THE POSSIBILITY OF AN EXPLOSION; MONITORING OF FLAMMABLE GASES IN EXPLOSIVE CONCENTRATIONS MUST NEVER BE ATTEMPTED.

### Never operate the Monitor in potentially explosive environments.

When monitoring potentially flammable or toxic gases it is essential that:

• The instrument itself is placed in a well-ventilated area outside the potentially hazardous zone.

 A sufficiently long tube is connected to the air-outlet on the back panel so that the sampled gas is carried away to the open air or to an extraction and/or filtration unit.

## Warnings!

- Avoid water condensation in the Monitor.
- Switch off all equipment before connecting or disconnecting their digital interface. Failure to do so could damage the equipment.
- Whenever it is likely that correct function or operating safety of the apparatus has been impaired, the apparatus must be made inoperative and secured against unintended operation.
- Any adjustment, maintenance and repair of the open apparatus under voltage must be avoided as far as possible and, if unavoidable, must be carried out only by trained personnel.
- If a fault is reported by the Monitor that indicates correct function of the instrument may be impaired, consult your local LumaSense Technologies representative. Under no circumstances should repair be attempted by persons not qualified in service of electronic instrumentation.

# **Chapter 1**

# **Using this Manual**

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### 1.1 Introduction

This manual can be used in several ways. The first time users can work their way through the examples in order to get to know the monitoring system. The more experienced users can jump directly to the relevant chapters in order to gain assistance, and experts can use this manual as a reference book by using the index.

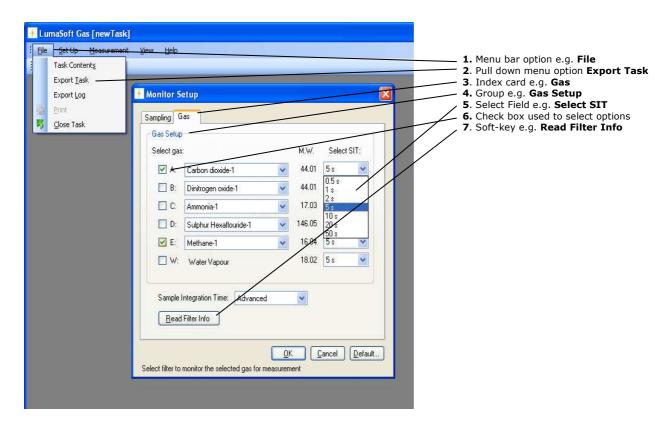
The LumaSoft Gas Single Point 7800 Software is used as a single channel monitoring software for Photoacoustic Multi-gas Monitor – INNOVA 1314, Photoacoustic Field Gas-Monitor – INNOVA 1412 and LumaSense SF6 Leak Detector - 3434.

The LumaSoft Gas Multi Point 7850 Software is used as a multi channel monitoring Software for Photoacoustic Multi-gas Monitor – INNOVA 1314, Photoacoustic Field Gas-Monitor – INNOVA 1412 and LumaSense SF6 Leak Detector - 3434 in system with up to two Multipoint Samplers – INNOVA 1309 or four Multipoint Sampler and Doser - INNOVA 1303.

**NOTE:** The LumaSoft Gas Multi Point 7850 Software requires a license dongle connected to the USB port in order to run.

### 1.2 Screens

The information displayed on screen is presented in this manual as shown below:



Radio push-buttons: these are not illustrated above, but are commonly used in the software. They act as a toggle function when several options are available, but only one can be selected at a time.

### 1.3 Stand-alone Use

In some situations, it may be necessary to set up the Monitor without connecting it to a PC. The way these instructions are presented is shown below:



The display above is used through-out this manual. It assists you displaying the text on screen and by indicating which of the push-buttons can and should be pressed.

In general, the push-buttons shown above are used to navigate through the various modes possible within the Monitor but are described in more detail below:



These push-buttons are illustrated as S1, S2 and S3. They correspond to the key and their position on the instrument.

These select push-buttons enable you to select one of the options displayed.



This group of 5 push-buttons are referred to in this manual collectively as the direction keys. The symbols below are used to simplify the instruction in this manual.

- ▲ & ▼ enable you to increase & decrease numbers, respectively, or to go to the Previous & Next Displays, respectively.
- & ► enable you to move across number fields or go to the Previous & Next gases, respectively.
- depending on the situations, acts as an "Enter" or "Go To Head" key.
- **Memory** Function push-buttons are always represented with the name of the push-button enclosed in a box which is shaded-in.
- **SYSTEM** Text that appears on the display screen is shown in an open shaded box, using UPPER case letters.

## FORMAT System General Clock

When referring to any part of the Set-up "tree", the text is shown in open shaded boxes with the same typeface as that used in the "tree".

For further description refer to "BE6011 Instruction Manual, 1314 Photoacoustic Multi-gas Monitor / 1412 Photoacoustic Field Gas-Monitor"

# 1.4 Tool-bar Icons in LumaSoft Gas Monitoring Software 7800 and 7850

The instructions in this manual use the pull-down menu paths to describe how operations are possible. However, in many cases, the icons in the tool-bars can be used to speed things up. Top Level toolbars and icons are presented in the following sections.

Other toolbars and icons will be presented in subsequent chapters.

### 1.4.1 Toolbar: Manage Users



- Opens a window dialog to create new users
- Change the password for the administrator
- Log off administrator
- Show information about software version

#### 1.4.2 Toolbar: Main menu



- Create new task
- Open existing task
- X Delete task
- Log off
- Exit program
- Show information about software version

## 1.4.3 Toolbar: Measurement



- System configuration
- Start measurement
- Stop measurement
- Close task
- Show information about software version

# **Chapter 2**

# **Preliminary Tasks**

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When taking delivery of the System three very important and preliminary tasks must be completed before starting to operate it:

Install the LumaSoft Gas Software (7800 or 7850) see <u>Section 2.1</u>). Connect the Monitor and the Multiplexer to a PC (<u>Section 2.2</u>). Setting-up User Accounts (<u>Section 2.3</u>).

# 2.1 Installing the LumaSoft Gas Single Point (7800) or Multi Point (7850) Monitoring Software

### 2.1.1 Computer requirements

The Software is targeted to work on a Desktop/Laptop PC environment running a Microsoft Windows Operating System.

Before installing the Software the PC must meet the following minimum requirements:

Processor	Minimum: 1 gigahertz (GHz) Pentium processor
Operating System	Windows XP SP2 Windows Vista Microsoft Windows 2003 Server Service Pack 1 (SP1)
RAM	Minimum: 512 MB
Hard Disk	Up to 500 MB of available space may be required.
Display	Minimum: 1024 x 768 high color, 32-bit
Total port connections	1 RS232 port and 1 USB port Or 2 USB ports
Connection to Gas Monitor	1 RS-232 port Or 1 USB port when using a USB-to-RS232 converter type JV0901 (delivered by LumaSense)
Connection to License dongle	1 USB port for LumaSoft Gas License Dongle Key (This License Dongle key is delivered by LumaSense)

Table 2.1 Computer requirements

Microsoft Office is required if using the export to Excel file format functionality in LumaSoft Gas.

### 2.1.2 Installing LumaSoft Gas

The LumaSoft Gas software is delivered on a CD with an installation program. Please refer to <u>Appendix A</u> how to perform the installation of the LumaSoft Gas software. It is recommended that your system administrator performs the task of installing the LumaSoft Gas program.

After the installation is successfully completed the LumaSense -> LumaSoft Gas program menu is created.

The "LumaSoft Gas" program icon (Figure 2.1) is also placed on your desktop for easy access to the program.



Figure 2.1 LumaSoft Gas desktop shortcut

# 2.2 Connecting the Monitor and the Multiplexer to a PC

The Monitor comes complete with a 9-pin to 25-pin null modem RS-232 interface cable. If your PC has a 25-pin serial port, an adapter can be fitted to enable the supplied cable to be used.

## 2.2.1 Fitting the RS-232 Cable

Ensure that both the Monitor and the PC are switched off at the mains. Failure to do so may result in your equipment being damaged.

Locate the serial port at the back of the PC; refer to your PC manual if in doubt.

Push the connector on the RS-232 cable on to the serial port socket, and secure it firmly using the securing screws.

Locate the output labelled "RS-232" at the back of the Monitor.

Push the connector at the other end of the RS-232 cable on to this socket, and secure it firmly using the securing screws.

Turn on the PC. Wait for Windows to start up.

The Monitor can be turned on at the mains.

In case that the PC is not equipped with a RS-232-port an USB-to-RS-232 converter must be used. We recommend to use the USB adapter JV0901 delivered by LumaSense.

To connect Multipoint Samplers - INNOVA 1309 or Multipoint Sampler and Dosers - INNOVA 1303 to the Monitor please refer to Section 2.2.3 and Section 2.2.4 respectively.

### 2.2.2 Setting the Communication Parameters

The LumaSoft Gas Software and the Monitor communicate using the RS-232 interface. In order for the communication to be successful, it is essential that the communication parameters are set correctly. This is a two stage process: the PC communication port is selected via the LumaSoft Gas software while the baud rate, parity, data bits and stop bits are defined via the Monitor.

The communication parameters necessary for the Monitor to communicate with the LumaSoft Gas are shown below in Table 2.2.

Baud rate	9600
Stop bits	1
Data bits	7
Parity	Even
Hardwire mode	Leased line
Handshake type	Hardwire

Table 2.2 Monitor RS232 communication parameters

These are set as the default values in the Monitor.

To prevent communication errors, the text line terminator, print data log and print error log must be set as shown in Table 2.3.

Text line Terminator	CR-LF
Print Data Log	NO
Print Error Log	NO

Table 2.3 More Monitor parameters

# 2.2.3 Checking/Changing the Communication Parameters in the Monitor

The communication parameters for the serial interface must be set using the push-buttons on the front of the Monitor.

1. Press SET-UP S3 S1 S3 S1 (see <u>Chapter 1.3</u>) .The screen display shows the following text.

# SELECT BAUD RATE 9600 PRESS ENTER TO CHANGE VALUE

If the baud rate displayed is incorrect press  $\square$  and use  $\blacktriangle$  and  $\blacktriangledown$  to display the correct value. Press  $\square$  again to store the selection.

If the baud rate displayed is correct, then press ightharpoonup to continue to the next parameter.

Press S1 to select 1 STOP BIT.

Press S1 to select 7 DATA BITS

Press S2 to select EVEN PARITY

Press S3 to select LEASED-LINE

Press S3 to select HARD-WIRED HANDSHAKE.

Press SET-UP to exit the set-up mode

Press RESET and S1 in order that the new settings are enabled.

The Monitor and the LumaSoft Gas Monitoring Software are now able to communicate together.

# 2.2.4 Checking/Changing the Text line Terminator in the Monitor.

The Text line Terminator must be set using the push-buttons on the front of the Monitor.

Press SET-UP S2 ▼S3

Press SET-UP to exit the set-up mode

## 2.2.5 Selecting the PC communication Port

It is just a simple case of selecting the correct port on the PC. The software shows the COM ports that are present in the system to choose from: COM1, COM2, COM3.... If you are not sure which port the cable is connected on your computer refer to your PC manual.

# 2.2.6 Setting up a Multipoint System with Multipoint Samplers - INNOVA 1309

The 1309(s) is connected to the Gas Monitor using IEEE-488 cable(s). To avoid data errors, this cable must conform to the specifications laid down in the IEEE-488 standard, particularly with regard to length, connector type and "daisy-chaining". LumaSense can supply the correct cables, Cable order no. AO0265 (2m) or WL0845 (1m).

**Caution:** To avoid permanently damaging the delicate electronics in a 1309 or the Monitor, you must ensure that all IEEE-488 instruments are switched off before connecting or disconnecting the interface cables.

The IEEE-488 address of each 1309 in the system must be set before communication with the PC can occur. The address is set using the eight DIP switches located on the back panel of the 1309. The decimal address of the instrument is expressed as a binary number, the MSD (Most significant DIP switch) being to the left looking onto the back panel. Table 2.4 will guide you.

Decimal Address	DIP switch setting (looking onto rear)	1309 multipoint sampler	
15	00001111	1	
13	00001101	2	

Table 2.4 Setting the 1309 address

# 2.2.7 Setting up a Multipoint System with Multipoint Sampler and Doser - INNOVA 1303.

The 1303(s) is connected to the Gas Monitor using IEEE-488 cable(s). To avoid data errors, this cable must conform to the specifications laid down in the IEEE-488 standard, particularly with regard to length, connector type and "daisy-chaining". LumaSense can supply the correct cables, Cable order no. AO0265 (2m) or WL0845 (1m).

**Caution:** To avoid permanently damaging the delicate electronics in a 1303 or the Monitor, you must ensure that all IEEE-488 instruments are switched off before connecting or disconnecting the interface cables.

The IEEE-488 address of each 1303 in the system must be set before communication with the PC can occur. The address is set using the eight DIP switches located on the back panel of the 1303. The decimal address of the instrument is expressed as a binary number, the MSD (Most significant DIP switch) being to the left looking onto the back panel. Table 2.5 will guide you.

Decimal Address	<b>21.</b> 21. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	
15	00001111	1
13	00001101	2
12	00001100	3
11	00001011	4

Table 2.5 Setting the 1303 address

## 2.3 Setting-up User Accounts

Setting up user accounts can be performed by the administrator only.

After starting the LumaSoft Gas application the **User Authentication** window opens, where you authenticate yourself as the administrator by specifying the administrator user name and password.

The default administrator password is: Administra



Figure 2.2 Login dialogue window

To create new users you can either select the **Manage User** icon from the toolbar or select **Manage User** from the **User** pull down menu, see Figure 2.3.



Figure 2.3 User pull-down: Manage User

The **User Accounts** window appears showing a list of the current user accounts, see Figure 2.4.

A predefined user account named *LumaSoftGas* with the highest access level appears the first time the **User Accounts** window is opened. The predefined password for the *LumaSoftGas* user is: *lumasoftgas* 



Figure 2.4 User Accounts

#### 2.3.1 Add User Account

In order for the administrator to add a new user account the **Add** softkey can be selected.

The **Add New User** window appears (see Figure 2.5).



Figure 2.5 Add User Account

The **User Name**, **Password** and **Access Level** for the new user account can be specified.

Please note that the **User Name** and **Password** must contain at least 6 characters and must contain no special characters. Only alphabets and numeric characters are allowed [(a-z), (A-Z), (0-9)] for the **User Name** and **Password** (see Figure 2.6).



Figure 2.6 User access Levels

Three different access levels can be specified. The rights for each of the access levels are described below in table 2.6.

<b>Access level</b>	Rights
Super	All expert rights
	Delete task
Expert	All operator rights
	Create a new task
	Make setup of a task
	Backup/restore a task
Operator	Open a task.
	Start a measurement
	Export a task
	Export log
	Export/import a task configuration

Table 2.6 User access levels

### 2.3.2 Edit User Account



Figure 2.7 User Accounts: Edit

A user account can be edited by the administrator by selecting the **Edit** soft-key in the **User Accounts** window. Before selecting the **Edit** soft-key a **User Name** must be selected in the **User Accounts** window.



Figure 2.8 Edit User Account

The access level can be changed by selecting the **Access Level** field. Also the Password can be changed by selecting the **Reset Password** soft-key. (see Figure 2.8).



Figure 2.9 Reset password dialogue

The **Reset Password** dialogue window appears and the new password for the user account can be entered. (see Figure 2.9).

#### 2.3.3 Remove User Account



Figure 2.10 User Accounts: Remove

A user account can be removed by selecting the **Remove** soft-key in the **User Accounts** window, see Figure 2.10. Before selecting the **Remove** soft-key a **User Name** must be selected in the **User Accounts** window.

### 2.3.4 Change password of the administrator

To change the password of the administrator you select the **Change** password icon from the toolbar or select **Change Password** from the **User** pull down menu. (see Figure 2.11)



Figure 2.11 User pull-down: Change Password

The **Change Password** dialogue window (Figure 2.12) appears and the old and new password for the administrator can be entered.



Figure 2.12 Change Password dialogue

### 2.4 Download of the latest version

You will find the latest version of the software on <a href="http://www.lumasenseinc.com">http://www.lumasenseinc.com</a>

## 2.5 Back-up and Restoring of calibration data

If you have ordered a calibration from our calibration laboratory, you will receive a CD with a backup of the calibration data. It is very important that you store these data in your Gas Monitoring Software 7304, supplied with the Monitor. Please refer to the **Instruction Manual BE6011** for guidance in how to backup and restore calibration data.

# **Chapter 3**

# **Set-up Measurement Task**

May 2009

This chapter will show the steps how to set-up a measurement task.

Please note that measurement set-up is only allowed for users with **Expert** or **Super** access level. (See <u>Table 2.6</u>)

Log in to the software using your username and password.



Figure 3.1 User Authentication

### 3.1 New task

Before creating a new task you can conveniently scan for connected monitors using the **Scan Network** pull-down menu (Figure 3.2).

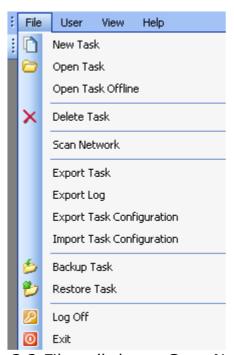


Figure 3.2 File pull-down: Scan Network

A scan for a connected Monitor is performed and after a while the **Scan Network** window appears, see <u>Figure 3.3</u>.



Figure 3.3 Scan Network

It is presented to which RS232 COM-port the Monitor is connected and type and serial number of the Monitor is shown.

To create a new task, select the **New Task** soft-key.

The **New Task** window opens.

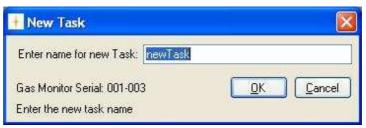


Figure 3.4 Type in the name of the new task.

Type in a name for the new task and press **OK**.

## 3.2 Measurement set-up

The set up of a new measurement task is carried out in five steps.

## 3.2.1 Configuration

First step is System Configuration Setup, select **Configuration** in the **Set Up** pull down menu (<u>Figure 3.5</u>) or select the  $\square$  icon from the task bar.

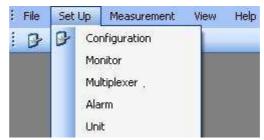


Figure 3.5 Set-up pull-down: Configuration

The following **System Configuration SetUp** window will appear.

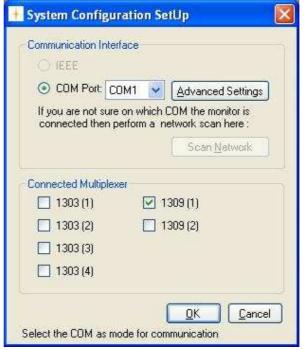


Figure 3.6 System Configuration Set Up

First select the COM Port where the Monitor is connected.

Then make check marks if any multiplexers (1303, 1309) are connected to the Monitor. A maximum of four 1303 or two 1309 can be connected. After finishing the set up, press **OK**.

The communication between the Monitor and the software can be set up by pressing **Advanced Settings**, see Figure 3.6.

The settings shown in <u>Figure 3.7</u> are the default settings. It is very important that the settings are identical for the Monitor and the Software; see <u>Section 2.2.2</u> for communication settings for the Monitor.

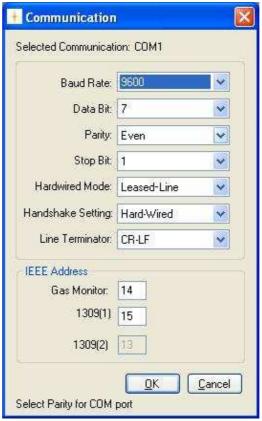


Figure 3.7 Communication window with default settings

Press **OK** to finish the setup.

## 3.2.2 Monitor Setup

Set up of the Monitor is done by selecting **Monitor** in the **Set Up** pull down menu. (Figure 3.8)

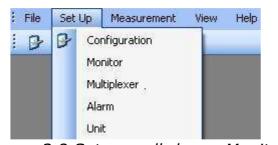


Figure 3.8 Set-up pull-down: Monitor

The **Monitor Setup** will appear. (<u>Figure 3.9</u>)

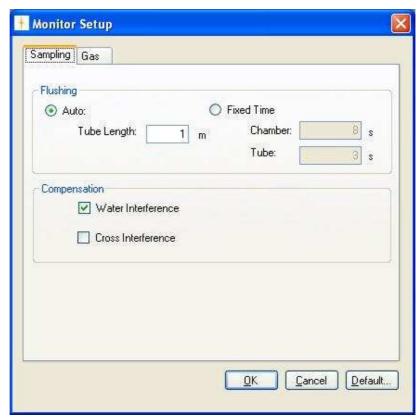


Figure 3.9 Monitor Setup, Sampling

### **Sampling Index Card**

In the **Flushing** group box select if the flushing of the instrument should be Auto or Fixed Time.

By selecting **Auto** the monitoring system controls the flushing by selecting the optimum flushing time. This time can vary as the option takes into account the cleanness of the external air filters and the length of the sampling tube. Type in the length of the tubing. (See Figure 3.9).

Selecting **Fixed Time** allows the user to define a flushing time for chamber and tubing. Table 3.1 shows the acceptable values for flushing chamber and tubing.

Acceptable Values	Interval	Default Value
Chamber: 2 to 60 s	1 s	8 s
Tube: 0 (=off), 3 to 120 s	1 s	3 s

Table 3.1 Acceptable values for flushing the system when selecting Fixed Time flushing

In the **Compensation** group box, see Figure 3.9, compensation for **Water** and **Cross Interference** can be checked on/off.

It is suggested that Water should be compensated for in all measuring situations except where extremely dry gases are being measured.

If any interfering gas other than Water Vapour is present in the ambient air sample, the Monitor can cross compensate for the interference caused by its presence provided that a selective optical filter is installed in the Monitor to measure the concentration of the interfering gas present.

#### **Gas Index Card**

Select the Gas index card and press the **Read Filter Info** soft-key (See Figure 3.10) to read the filter configuration from the Monitor.

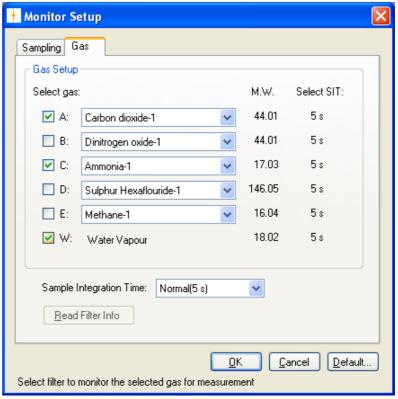


Figure 3.10 Monitor Setup, Gasses to be measured

The calibrations in the Monitor will appear as Gas A, B, C, D and E, see <u>Figure 3.11</u>. Select the gasses which should be measured by using the checkboxes.

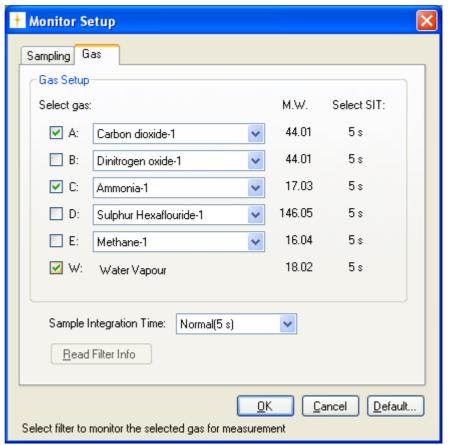


Figure 3.11 Monitor Setup

Also select the Sample Integration Time (SIT) to be used in the measurements and press **OK**.

To select different SIT's for different gases use the **Sample Integration Time** field selection and select **Advanced**.

A select field appears for each gas, see  $\underline{\text{Figure 3.12}}$ . Then it is possible to define a SIT for individual gases.

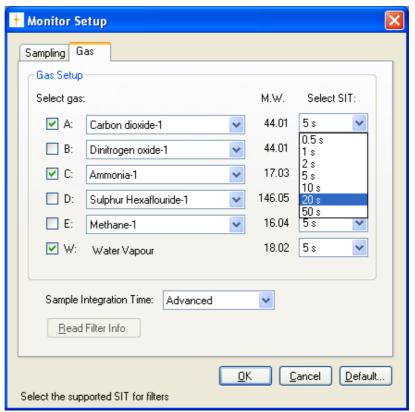


Figure 3.12 By selecting Advanced the user can define SIT for the different gases

### 3.2.3 Multiplexer setup

If a multiplexer is connected to the Monitor select **Multiplexer** in the **Set Up** pull down menu. (See Figure 3.13)

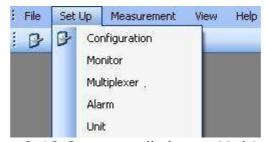


Figure 3.13 Set-up pull-down: Multiplexer

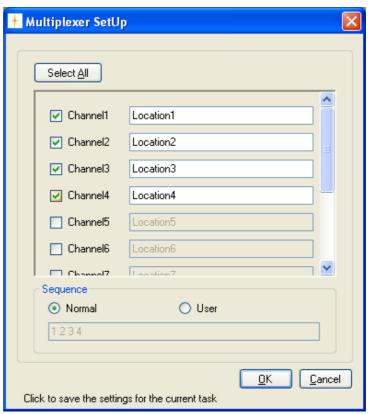


Figure 3.14 Setup of multiplexer

Select the channels from which the multiplexer should draw air samples. For each channel a specific location or name can be assigned.

Choose between a **Normal** sequence and a **User** sequence. By selecting a normal sequence (see Figure 3.14), air samples will be drawn first from channel 1 then 2, 3, 4 etc., that is in ascending order. Selecting User Sequence allows you to define the sampling order arbitrarily, by typing in the channel numbers in a specific order, see <u>Figure 3.15</u>.

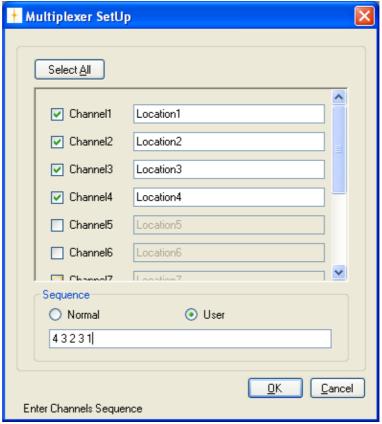


Figure 3.15 User defined sample sequence

### 3.2.4 Alarms

This function is used to define software alarms for each gas when the concentration reaches either a minimum or a maximum level.

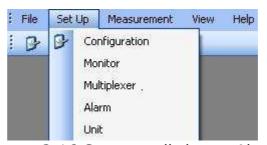


Figure 3.16 Set-up pull-down: Alarm

Select **Alarm** in the **Set Up** pull down menu, and the following window will appear, <u>Figure 3.17</u>.

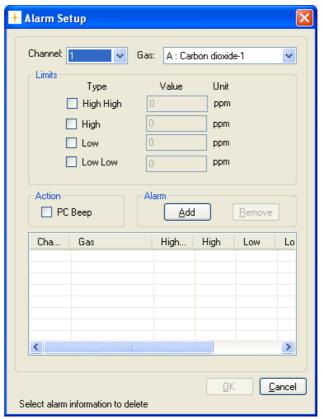


Figure 3.17 Set up of alarm for specific gases

First select the channel number in the field selection box for which the alarm should be configured, as shown in Figure 3.18.

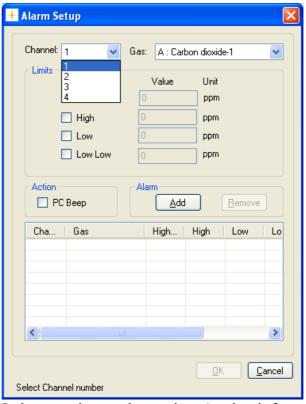


Figure 3.18 Select a channel number in the left pull down box.

Then select the gas for which the alarm should be configured in the **Gas** selection box, see Figure 3.19.

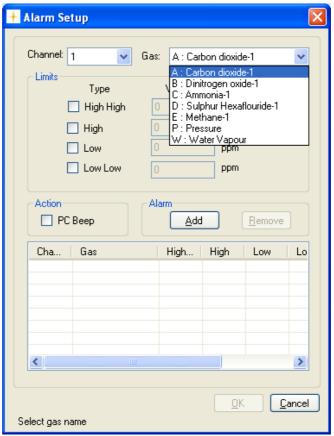


Figure 3.19 Select for which gas the alarm should be configured

There are four different alarms which can be configured: Low, low low, high and high high. The **Low** alarm can be set to give a warning that the concentration of the gas is dropping below the normal level. The **Low Low** alarm can then be configured to give a warning whenever the gas concentration drops below the lowest allowable concentration. The **High** and the **High** alarm levels are set to give a warning for a concentration above a certain limit and that the maximum allowable concentration is exceeded.

To set up an alarm first select between the four mentioned alarms, select concentration unit, and then type in the concentration, se Figure 3.20.

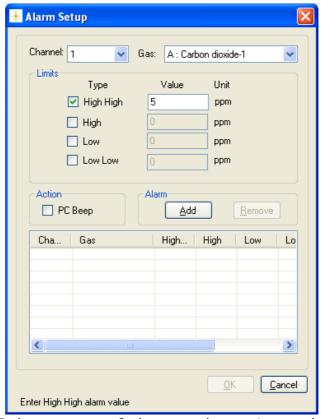


Figure 3.20 Select a type of alarm and type in a value for the gas concentration

When the alarms have been configured choose whether there should be a PC beep when the alarm level is reached. Press **Add** soft-key to add the configured alarms and then **OK** to proceed. (See Figure 3.21)

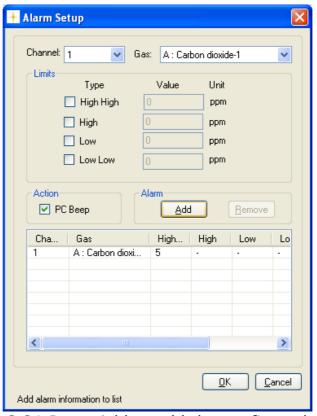


Figure 3.21 Press Add to add the configured alarms

To remove a gas from the alarm list highlight the gas using a mouse click and press the **Remove** soft-key. (See Figure 3.21)

#### 3.2.5 **Units**

Select **Unit** in the **Set Up** drop down menu. (See Figure 3.22)

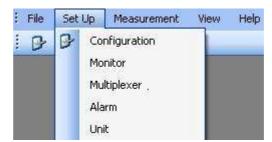


Figure 3.22 Set-up pull-down: Unit

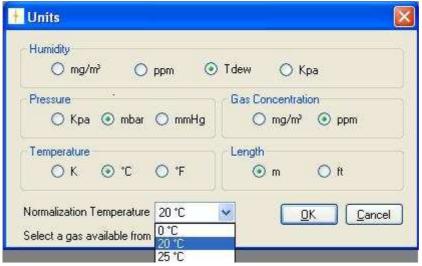


Figure 3.23 Select in which units the data should be displayed

In this window the user can select in which units Humidity, Pressure, Gas Concentration, Temperature and Length will be shown. The Normalization Temperature can also be changed. The normalization temperature is the reference temperature, for reporting data in absolute unit mg/m<sup>3</sup>. A normalization temperature of 25°C means that the measured gas concentrations will be calculated in mg/m<sup>3</sup> at 25°C. The user can choose between three different normalization temperatures, see table 3.2.

Display Text	Options	Default Value
NORMALIZATION TEMPERATURE	0°C, 20°C and 25°C	20°C
NORMALIZATION TEMPERATURE	32°F, 68°F and 77°F	68°F
NORMALIZATION TEMPERATURE	273K, 293K and 298K	293K

Table 3.2 The possible values and the default values of the normalization temperature

# **Chapter 4**

# **Perform Measurement**

May 2009

This chapter shows how to

- perform a measurement task. (<u>Section 4.1</u>)
- present the measuring data in graphic display. (Section 4.2)
- present the measuring data in numeric display. (Section 4.3)
- set user events. (Sections 4.2.7 and 4.3.3)
- print graphic and numeric displays. (Sections 4.2.8 and 4.3.4)
- display historical data. (Section 4.2.9)
- view alarms. (<u>Section 4.4</u>)
- export measurement data. (Section 4.5)
- view error and warnings. (<u>Section 4.6</u>)
- export log (Section 4.7)

## 4.1 Measurement start and stop

If a measurement task is not open, select **File** and **Open Task**, see Figure 4.1 or select if from the task bar.

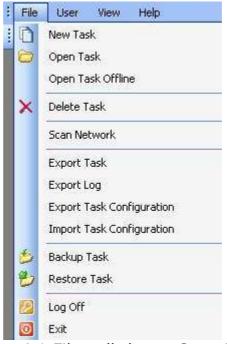


Figure 4.1 File pull-down: Open Task

Select an existing task to open, see Figure 4.2.

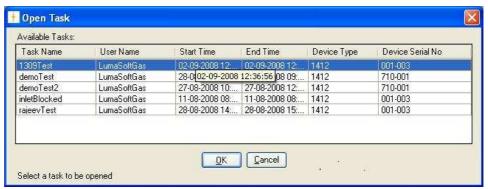


Figure 4.2 Select which task to open

#### 4.1.1 **Start Measurement**

To start the measurement, select **Measurement** and **Start**, see Figure 4.3, or press the icon with the green arrow in the task bar.



Figure 4.3 Measurement pull-down: Start

The measurement can be started immediately (Now option) or at a specific starting time by using the option: **Start at**, see Figure 4.4.

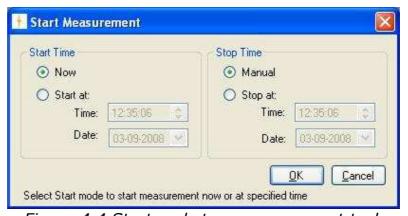


Figure 4.4 Start and stop measurement task

The measurement can be stopped manually (Manual option) or at a fixed time using the **Stop at** option. (See Figure 4.4)

A measurement task can be stopped and then restarted at your convenience.

### 4.1.2 Stop Measurement

To stop the measurement, select **Measurement** and **Stop**, see Figure 4.5, or press the icon in the task bar.



Figure 4.5 Measurement pull-down: Stop

# 4.2 Presentation of Data in Graphical Window

To display measurement data graphically select **Graphical Window** in the **View** pull-down menu. (See Figure 4.6)

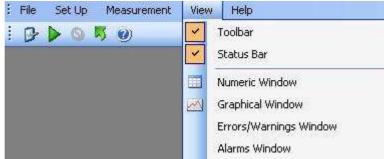


Figure 4.6 View pull-down: Graphical Window

### 4.2.1 Configuration of the graphical window

In the **Configuration** window select if the data should be presented as a **Real Time Graph**, while measurement is in progress, or **Historical Graph**, see Figure 4.7.

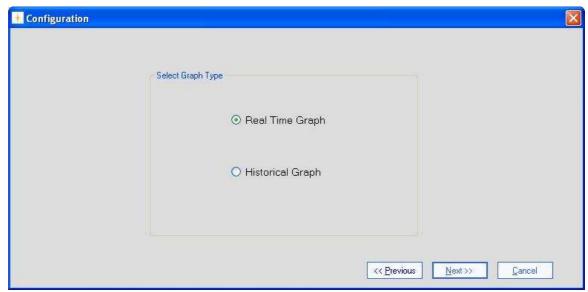


Figure 4.7 Select if the data should be presented in real time or historic

**Real Time Graph** means that measurement data will be plotted as they arrive from the Monitor.

Historical Graph means viewing of previously measured data

Select **Real Time Graph** and press **Next** to continue.

#### 4.2.2 Select Gases

In the gas **Configuration** window, see Figure 4.8, select which of the measured gases to be included in the Graph and press the right going arrow.

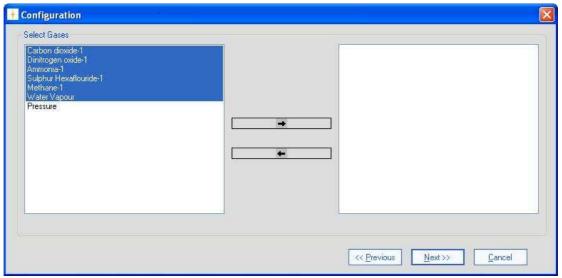


Figure 4.8 Select which gasses to be presented

To select more gasses at one time press Ctrl while selecting. When the gases have been chosen they will appear in the right window, see Figure 4.9. Press **Next** to proceed.

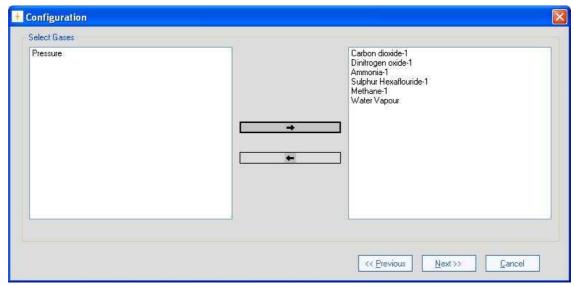


Figure 4.9 The gasses chosen for presentation

# 4.2.3 Configuration of curves

#### CurveColor

Each of the filters has a default selected curve color, see Figure 4.10.

To change the color of the curves press the colored square in the **CurveColor** column.

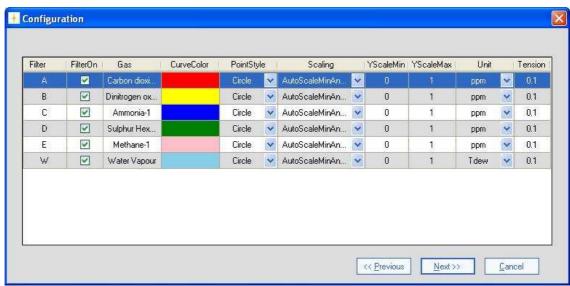


Figure 4.10 Change the color of the curves

Select a color for the curve in the **Color** window, see Figure 4.11.



Figure 4.11 Select a color for the curve

Repeat the procedure for all the gasses.

### **PointStyle**

It is possible to change the style of the plotted measuring points to **Square** or **Circle** using the field selection in the **Point Style** column.

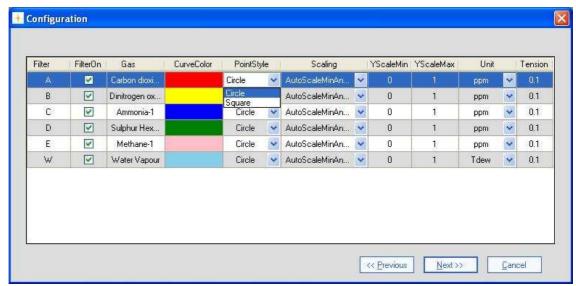


Figure 4.12 Change the style of the measurement points

### **Scaling**

The scaling on the Y-axis can be set to **AutoScaleMinAndMax**, **AutoScaleMax** or **AutoScaleOff** in the field selection individually for each filter in the **Scaling** column. The possible scaling types are described in <u>Table 4.1</u>.

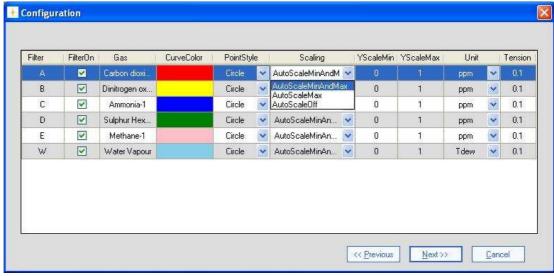


Figure 4.13 Setting the scaling of the axis

AutoScaleMinAndMax	The scale will cover from the lowest measurement value to the highest measured value, i.e. all measurement points will be visible on the graph.		
AutoScaleMax	The Y-axis will begin at 0 and the maximum value depends on the highest measured value.		
AutoScaleOff	The user defines both minimum and maximum values for the Y scale manually, by defining <b>YScalemin</b> and <b>YScaleMax</b> . This can be of use to view measurement points in a particular range.		

Table 4.1 Shows the possible Scaling types of the Y-axis

#### **Units**

In the **Unit** column the unit in which each gas will be displayed in the graphical window can be selected.

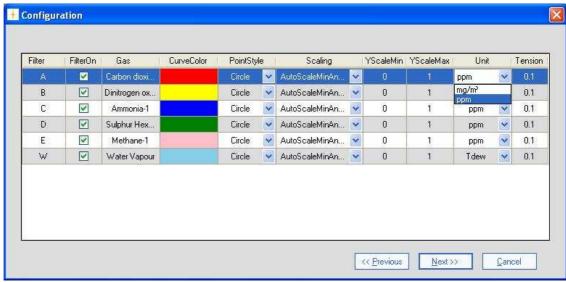


Figure 4.14 Select the unit in which the gas concentrations will be displayed

<u>Table 4.2</u> shows the possible parameter units and their default settings.

	Units	Default Unit
Parameters		
	mg/m³, ppm, Tdew, kPa	Tdew
Humidity		
Pressure	mbar, mmHg, kPa	kPa
Gas Concentrations	mg/m³, ppm	ppm

Table 4.2 The possible parameter units with defaults

#### **Tension**

By adjusting the **Tension** it is defined how soft/hard the lines between the measuring points should be. If the tension is set to 0 the points are connected by straight lines.

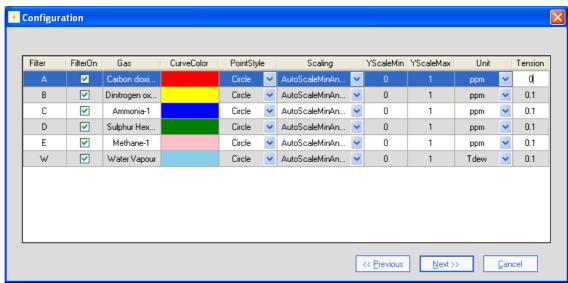


Figure 4.15 Define how hard/soft the lines between measurement points should be

When all the settings has been adjusted press **Next** to proceed.

## 4.2.4 Configuration of the Graph Window

In this configuration window the trend properties are configured. The trend can be given a title by entering a name in the **Graph Title** field. (See Figure 4.16).



Figure 4.16 Configuration of graph window properties

The number of decimals on the measured values can be selected in the field selection: **Y Axis Decimal places**.

The time interval (**X Interval**) on the X-axis can be set to days, hours, minutes or seconds.

**Back Color, Cursor Color, Text Color** and **Font** etc. can be changed by pressing the appropriate grey squares.

**Gradient Mode** gives a shading of a dark background color.

Grid Visible turns on/off the grid.

**User Events** turns on/off the display of user events (see <u>Section 4.2.7</u>).

Press **Finish** when the configuration is completed.

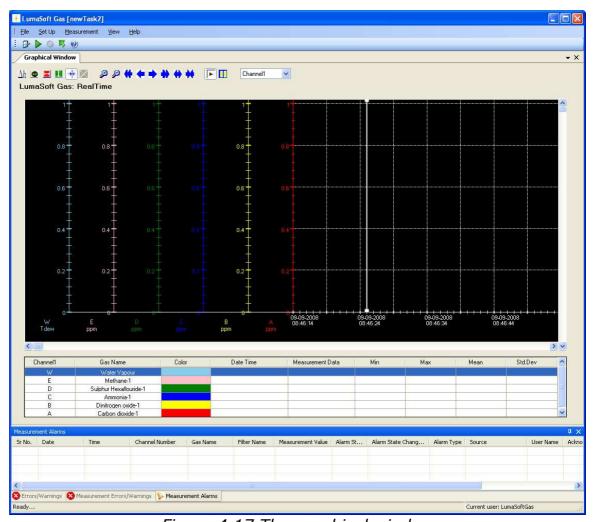


Figure 4.17 The graphical window

### Changing the configuration

To change any of the above settings after the configuration is ended press the right mouse button while the cursor is placed in the graph area. Select **Setup** (see Figure 4.18) and the **Configuration** window will appear, see Figure 4.10 and Figure 4.16.

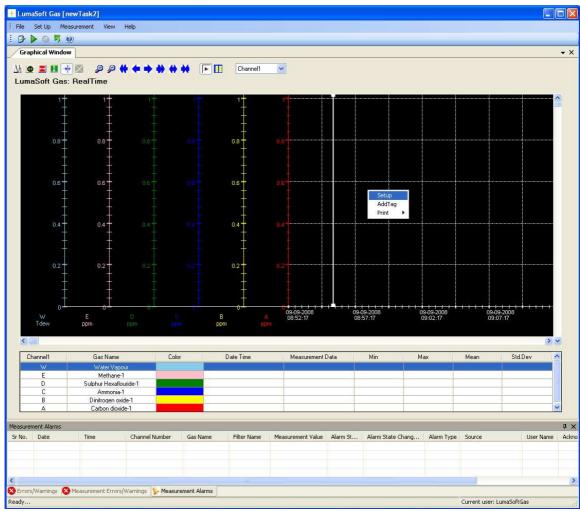


Figure 4.18 To change the configuration in the graphical window press the right button on the mouse

To add a curve for a measured gas, which has not been previously added, press the right mouse button while the cursor is placed in the graph area and select **AddTag**. (See Figure 4.18)

## 4.2.5 The Graphical Window

The graphic window shows the measurement data in a graph. Each filter in the Monitor has its own axis on the graph, see Figure 4.18. Below the graph a window containing a list of the measured gases, and statistics performed from all obtained measurement data (Min, Max, Mean and Std. Deviation) is shown. The bottom window is the Error and Warnings and Alarm window. The number of curves displayed, their color and style are defined by the user as described in Section 4.2.1, Section 4.2.2, Section 4.2.3 and Section 4.2.4.

The user can toggle between the Errors/Warnings, Measurement Errors/Warnings and Measurement Alarm windows. The Errors/Warnings window will register if any errors have occurred while

running the measurement. The window can be hidden by pressing **Auto Hide** icon, or by selecting **Errors/Warnings Window** in the **View** drop down menu, see Figure 4.19.

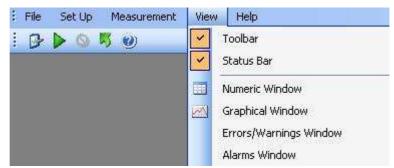


Figure 4.19 View pull-down: Errors/Warnings Window

### 4.2.6 Functions in the Graphical Window

In the top of the Graphical window the Icon Tool Bar is displayed.



The tool bar makes it easier to handle and process the obtained measurement data.

The function behind each icon will be explained in the following section.

#### Find Difference $\Delta h$

The function  $\Delta h$ , will calculate the difference in the value for two data points on the same filter curve. Press the  $\Delta h$  icon and then select the two data points with mouse clicks. In the top right corner the difference between the two measurements will be displayed, see <u>Figure 4.20</u>.

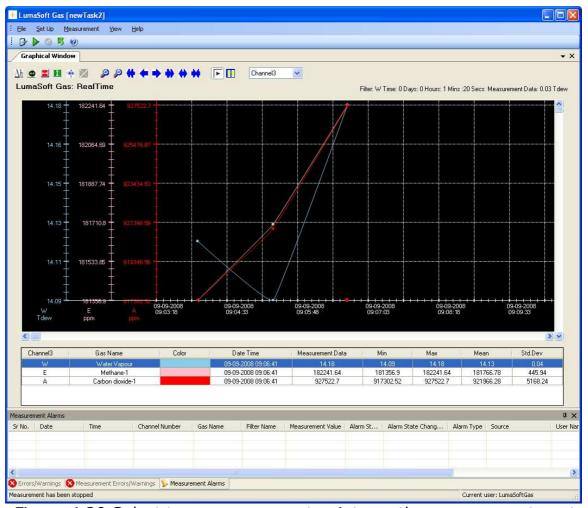


Figure 4.20 Select two measurement points on the same curve to get the difference in concentration

# Historical Data Plotting

Historical data plotting is described in Section 4.2.8.

# X Delta Cursor

Press the **X Delta Cursor** icon and select two points to determine the difference in time. A light red area will appear between the two points and the time difference will be displayed, see <u>Figure 4.21</u>. When using this function the statistics shown in the middle window are calculated for the measurement points within the chosen interval and will be marked with red text color, see <u>Figure 4.21</u>.

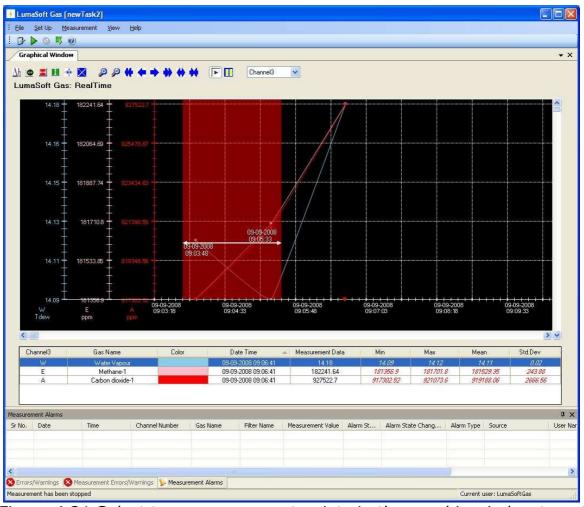


Figure 4.21 Select two measurement points in the graphic window to get the difference in time

# Y Delta Cursor 🗓

Press the **Y Delta Cursor** icon and select two points where the difference in concentration is needed. A green area will appear between the two points and the min and max value in concentration will be displayed, see <u>Figure 4.22</u>.

By double-clicking on a **Gas Name** in the middle window it is selected for which Gas the min and max concentrations is displayed.

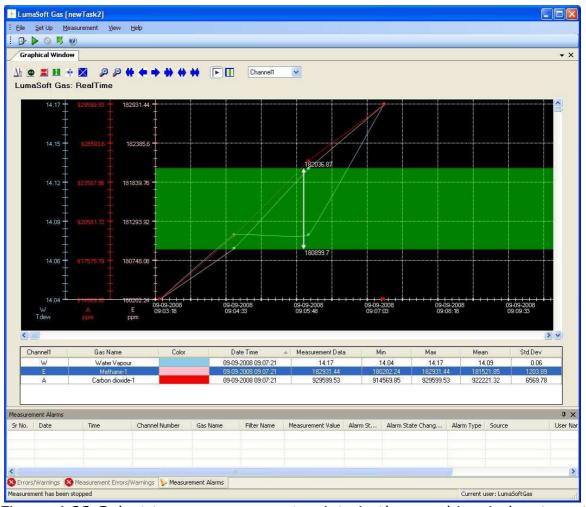


Figure 4.22 Select two measurement points in the graphic window to get the min and max concentrations

# Cursor On/Off

The **Cursor** function will give the user opportunity to see the exact measurement values for any given measurement point. Drag the cursor to a specific measurement point and the values will be displayed in colored boxes, see <u>Figure 4.23</u>.

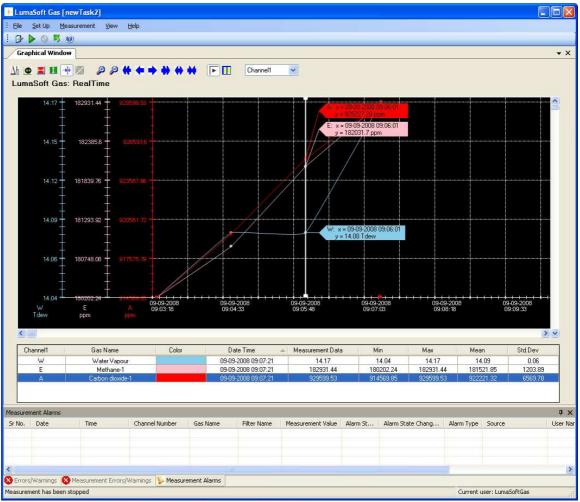


Figure 4.23 Drag the cursor to the measurement point to view the measurement data

# **Delete Delta Cursor**

A **X** or **Y Delta Cursor** can be deleted by pressing this icon . The window below will appear and the desired cursor can be selected and deleted by pressing **Delete**, see Figure 4.24.

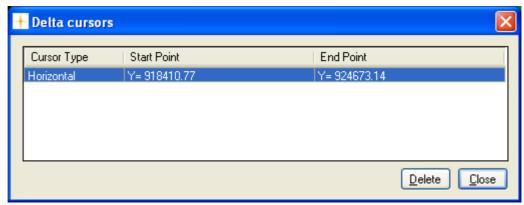


Figure 4.24 Select the cursor which should be deleted and press Delete

# Zoom 🔑 🤌

This function enables the user to zoom in and out on areas of particular interest on the graph by using the two icons: **Zoom In**  $\nearrow$  and **Zoom Out**  $\nearrow$ .

# 

If a measurement is running over a longer period of time, these icons can be used to scroll the x axis forth  $\rightarrow$  or  $\rightarrow$  and back  $\leftarrow$  or  $\leftarrow$ .

# Expand/Compress 🔷 🛶

These two icons can be used to expand and compress the x-axis. This function can be used to get a better visibility of measurement points lying very close to each other.

# Start/Pause measurement ▶ Ⅱ

These two icons allow the user to start and pause the display of new measurements points at any time.

### **Select Channel**

This select field box enables switching between the channels on the 1309 which are used to draw air samples, allowing viewing all obtained measurement data for a specific channel, see Figure 4.25.

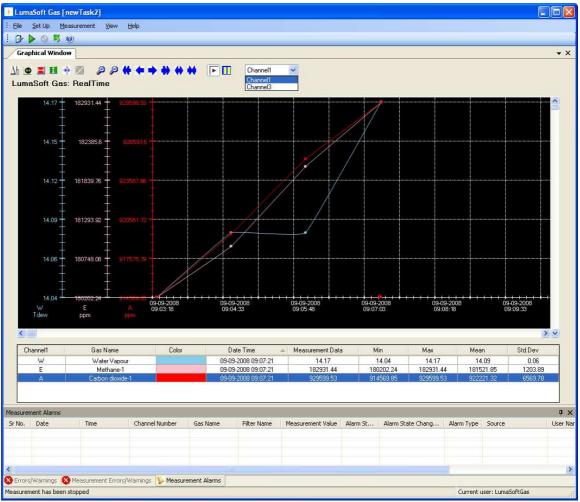


Figure 4.25 Select a channel number in the select field box

## 4.2.7 User Events in the graphical window

If an event occurs or a changed condition happened during a measurement task, it is possible to indicate this event by using the **User Event** function.

To insert a user event press the right mouse button while placing the cursor on the measurement point where the event should be added and select **Add UserEvent**, see Figure 4.26.

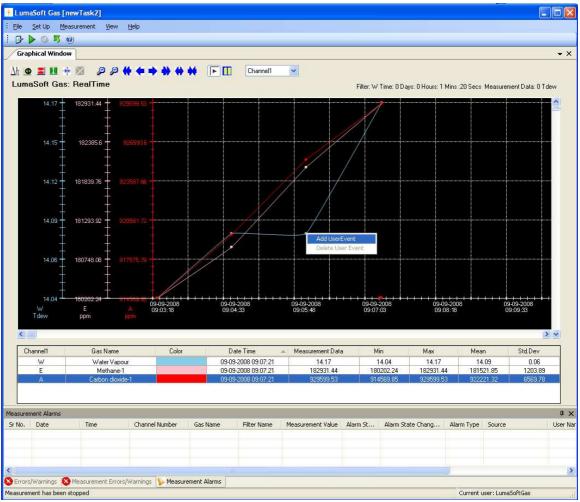


Figure 4.26 Insert User Event by pressing the right mouse button.

The following window, see Figure 4.27, will appear to add a comment to be displayed for this specific user event.

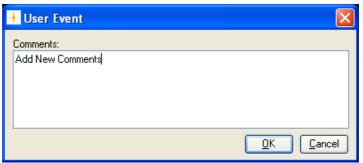


Figure 4.27 Add a comment to be displayed for the user event

Press **OK** to proceed. The user event which has been set up will be shown as an envelope right beside the measurement point, to which it belongs.

To display a user event set the cursor at the envelope.

A user event can be updated or deleted by pressing the right mouse button while placing the cursor on the envelope and selecting either **Update UserEvent** or **Delete UserEvent**.

### 4.2.8 Printing the graphical window

The graphical window can be output to a printer by right-clicking with the mouse button anywhere inside the graphical window to get the print-menu.

Select either **Print** or **Print Preview**, see Figure 4.28.

The **Print** option will make a printer output and the **Print Preview** will make a screen view of the printout.

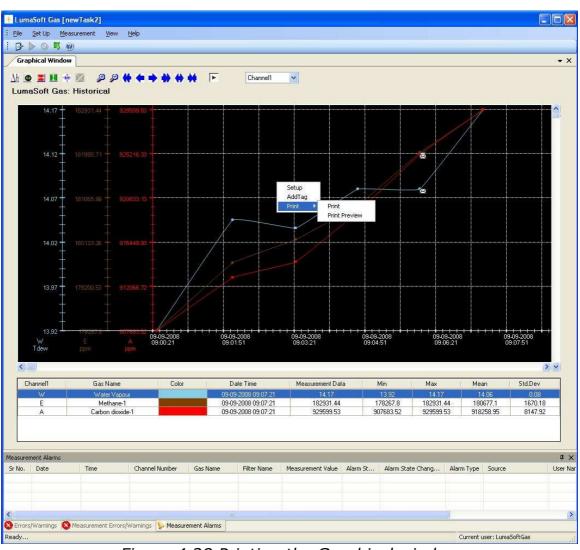


Figure 4.28 Printing the Graphical window

The printout contain the curves and a footer with task name, monitor type and serial number, channel number, information about the task setup, statistical data, see <u>Figure 4.29</u>.

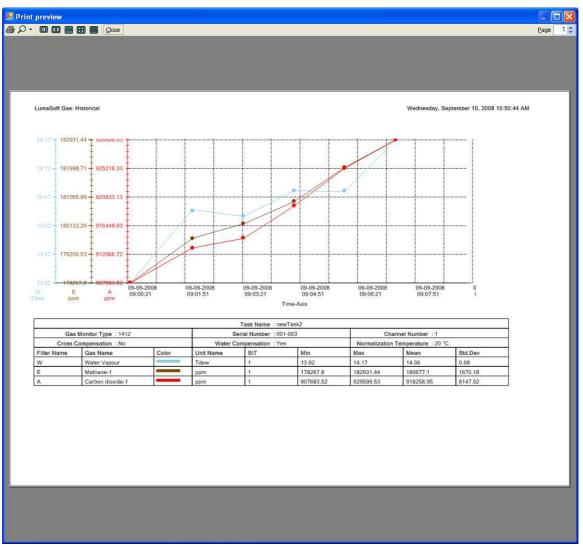


Figure 4.29 Print preview of the Graphical window

### 4.2.9 Displaying historical data

Open an existing task by selecting **Open Task** or **Open Task Offline** in the File drop down menu, see Figure 4.30. The **Open Task Offline** allows opening a task without a Monitor connected.

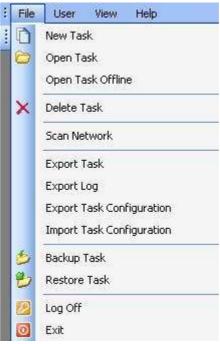


Figure 4.30 File menu: Open Task/Open Task Offline

The desired task can be opened, see Figure 4.31.

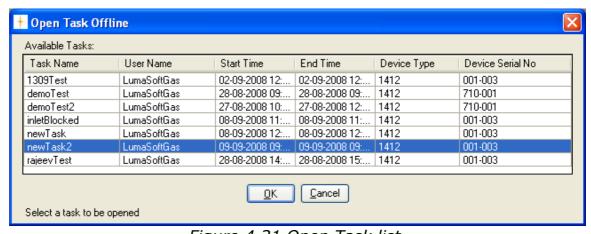


Figure 4.31 Open Task list.

By selecting **Task Contents** in the **File** pull-down menu, see <u>Figure 4.32</u>, active filters and start/stop time is displayed, see <u>Figure 4.33</u>.

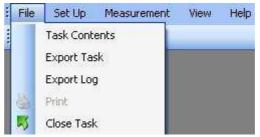


Figure 4.32 File menu: Task Contents.

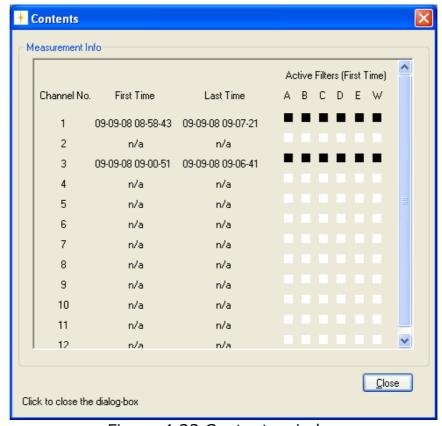


Figure 4.33 Contents window

The historical data can be displayed by selecting **Graphical Window** in the **View** drop down menu, see Figure 4.34, then press the **Historical Data Plotting** icon **①**.

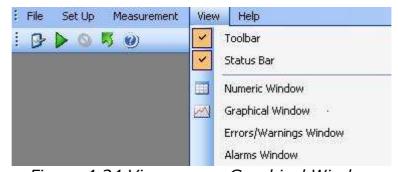


Figure 4.34 View menu: Graphical Window

A specific time interval can be selected by entering date and time in the two fields: **From Date** and **To Date**, see Figure 4.35.

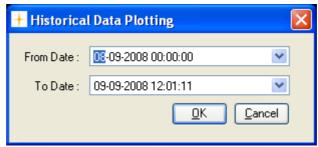


Figure 4.35 Select time interval for historic data plotting.

Click **OK** to display the historical data in a graph.

The functions of the icons in the historical window are the same as in the Real Time Window described in Section 4.2.6.

To continue the measurements performed in the specific task, press the green arrow icon or select **Start** in the **Measurement** drop down menu, see Figure 4.3.

To display the incoming measuring data (real time data) select the icon.

### 4.3 Presentation of Data in the Numeric Window

To display measurement data numeric select Numeric Window in the View pull-down menu.

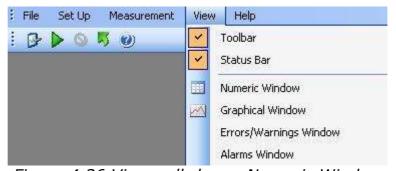


Figure 4.36 View pull-down: Numeric Window

#### **Configuration of the Numeric Window** 4.3.1

The **Numeric Window Properties** consists of two Index cards: **Interval** and **Columns**, see Figure 4.37.

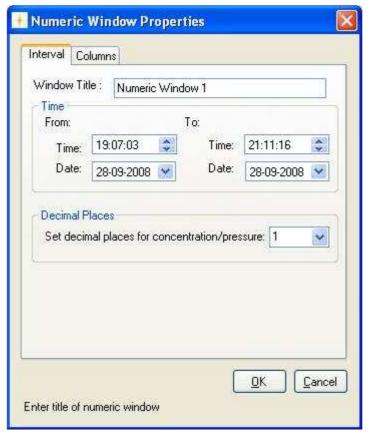


Figure 4.37 Numeric Window Properties

#### **Interval Index Card**

Type in a title for the numeric window in the **Window Title** box, see Figure 4.37.

Choose which time interval on a specific date that should be included in the numeric window. This option enables to define the column length as a period of time.

Also the number of decimal places for concentration and pressure values can be selected.

#### **Columns Index Card**

Define which component's parameters are displayed in the numeric window.

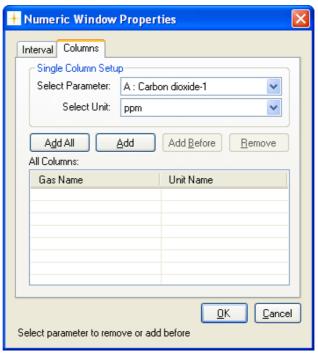


Figure 4.38 Column Index Card

In the **Single Column Setup** select the gases which should be displayed and their units, see Figure 4.38.

**Select parameter**: by clicking in this field, the names of all the gases and atmospheric pressure measured during this monitoring task are displayed. The gases and pressure are selected individually, see Figure 4.39.

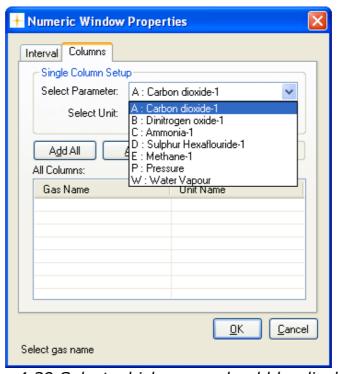


Figure 4.39 Select which gases should be displayed

**Select unit**: this enables to display the desired unit for each gas and for the atmospheric pressure. Click in the select unit field, and the available units for this parameter will be displayed.

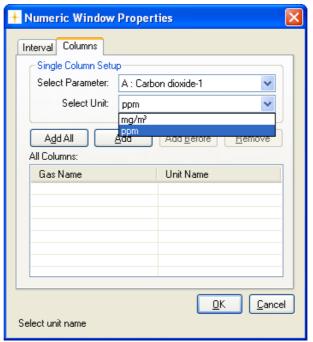


Figure 4.40 Select the units in which the concentration should be displayed

Press **Add** after each selected parameter, see Figure 4.41. To insert the second parameter before the first press **Add Before**. It is also possible to remove a selected parameter by pressing **Remove**.

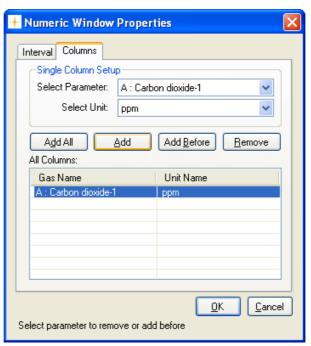


Figure 4.41 The selected gases are shown in the All Columns field

For convenience it is possible to add all the filter parameters using the **Add All** soft-key, see Figure 4.42.

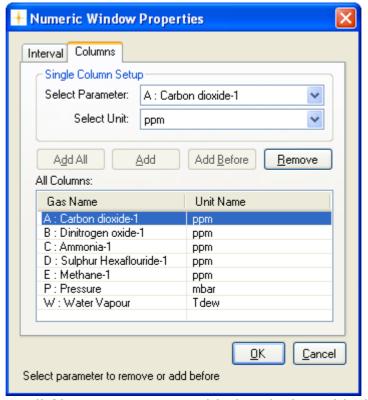


Figure 4.42 All filter parameters added with the Add All soft-key

In the **All Columns** field all component parameters to be displayed in the numeric window must appear. Note that if a parameter already appears here, but you want to edit the units, then you must remove the existing parameter and add it again with the changed unit.

When all the parameters, which should be displayed in the numeric window, have been selected, press **OK** to proceed.

The numeric window is shown, see <u>Figure 4.43</u>.

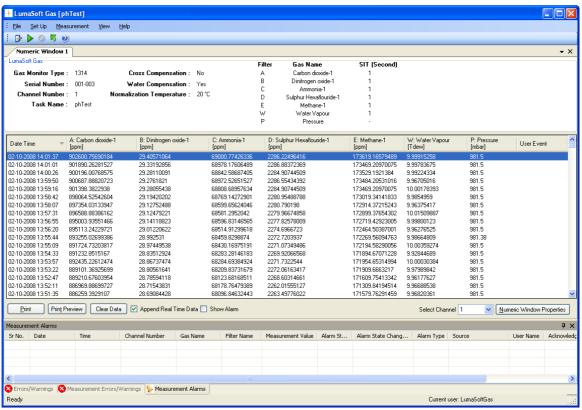


Figure 4.43 The numeric window

### 4.3.2 The Numeric Window

In the top of the numeric window the serial number for the Monitor and other settings are shown.

This window can display all the measurement data, simultaneously. Gas measurement data are displayed as instantaneous values. If any events have been added during the monitoring task, these are also displayed here. How to generate user events is explained in <u>Section 4.3.3</u>.

The latest measurement results are always displayed at the bottom of the column, previous measurement data roll upwards, disappearing from the view at the top of the column when the defined interval is full.

The Error and Warnings window will register if any errors have occurred while running the measurement. The window can be hidden by pressing Auto Hide  $\square$  icon or by selecting **Errors/Warnings Window** in the **View** drop down menu, see <u>Figure 4.44</u>.

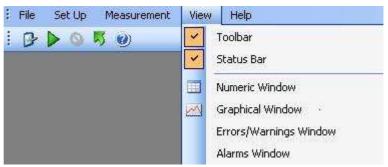


Figure 4.44 View menu: Errors/Warnings Window

#### 4.3.3 User Events in the numeric window

If an event occurs or some conditions are changed during a measurement task it is possible to indicate this event by using the User Event function.

To insert a user event press the right mouse button while placing the cursor on the measurement point where the event should be added and then select **Add User Event**, see Figure 4.45.

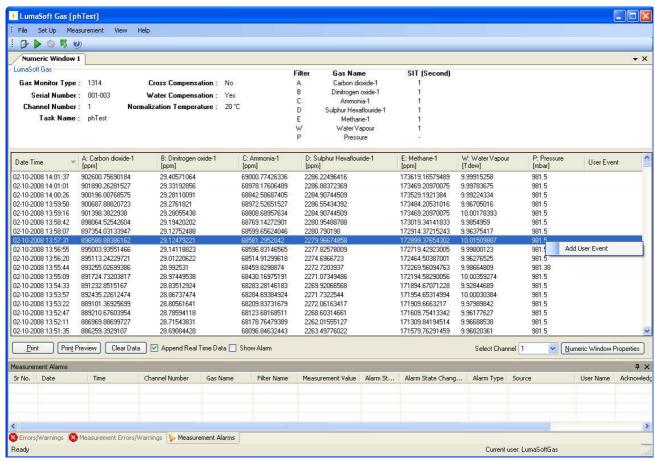


Figure 4.45 To add a User Event

The following window will appear, see <u>Figure 4.46</u>. Add a comment which will be displayed for this specific user event.

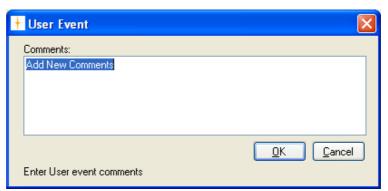


Figure 4.46 Add a comment to be displayed for the user event

Press **OK** to proceed. The user event which has been set up will be shown next to the measurement point, to which it belongs (here the user event "window open" has been added, see Figure 4.47.

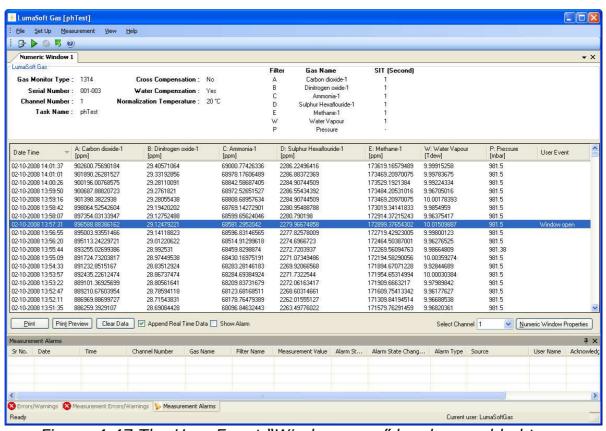


Figure 4.47 The User Event "Window open" has been added to a measurement point

An user event can be edited or deleted by pressing the right mouse button while placing the cursor on the event and selecting either **Edit User Event** or **Delete User Event**, see <u>Figure 4.48</u>.

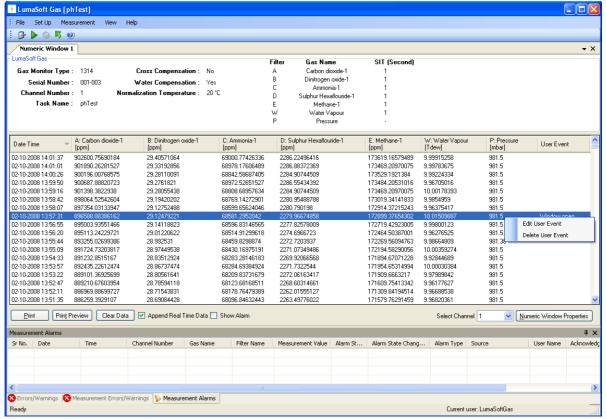


Figure 4.48 Edit or delete an User Event

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#### 4.3.4 Printing the numeric window

The numeric window can be output to a printer by selecting either the **Print** or the **Print Preview** button, see Figure 4.49.

The **Print** option will make a printer output and the **Print Preview** will make a screen view of the printout.

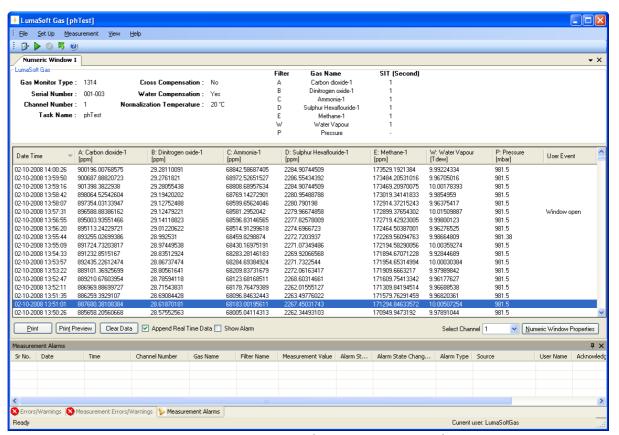


Figure 4.49 Printing the numeric window

The printout contain the numeric data and a header with task name, monitor type and serial number, channel number, information about the task setup, see <u>Figure 4.50</u>.

The printout can expand to more pages if the measurement data does not fit one page.

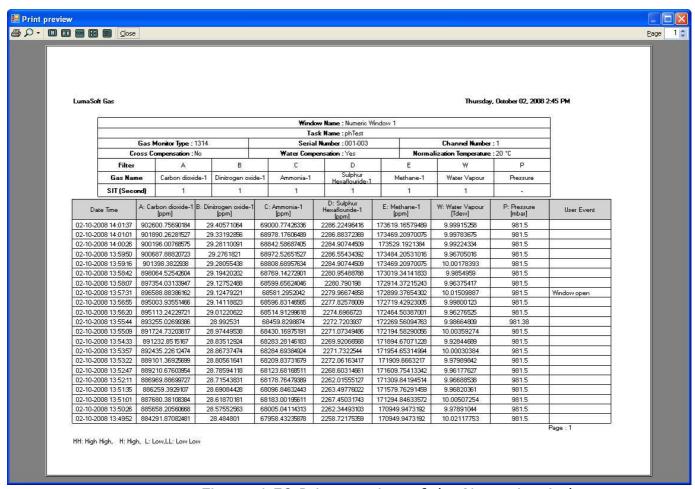


Figure 4.50 Print preview of the Numeric window

#### 4.4 View Measurement alarms

A description of measurement alarms can be found in Section 3.2.4.

To show the alarms in the numeric window check the tick box **Show Alarm**, Show Alarm refer to Figure 4.51.

An extra **Alarm** column for every filter is then shown.

If an alarm occurred for a measured value it is shown as either **High**, **High** High, Low or Low Low in the Alarm column, see Figure 4.51.

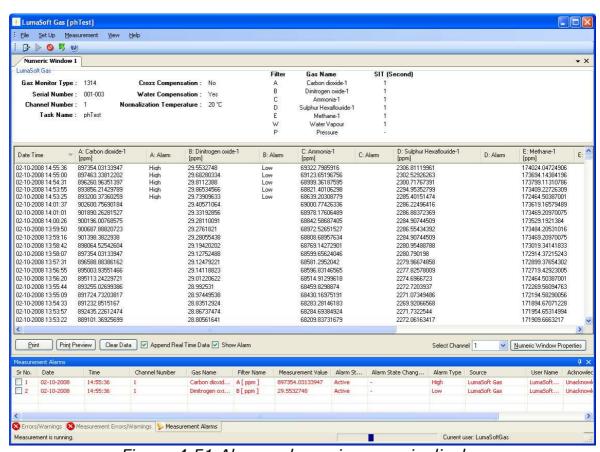


Figure 4.51 Alarms shown in numeric display

The **Measurement Alarms** view can be switched on/off by using the **View** menu pull-down **Alarms Window**, see <u>Figure 4.52</u>.

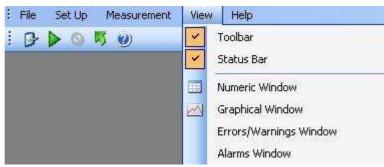


Figure 4.52 View pull-down: Alarms Window

The **Measurement Alarms** view shows the latest occurred software alarms, see Figure 4.53.

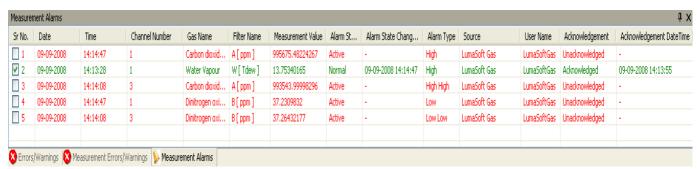


Figure 4.53 The Measurement Alarms view

Each alarm is date and time stamped, with channel number, Gas and filter name, measured value and Alarm type.

The **Sr No.** check box gives the user the opportunity to acknowledge an alarm.

### 4.5 Export Task

During or after measurement all the current measurements can be exported to Microsoft Excel file format. This gives the opportunity to do custom data processing on the measurement data, like calculation, presentation in table or graph format.

The measurement data export can be initiated by using the **File** menu pull-down **Export Task**, see <u>Figure 4.54</u>.

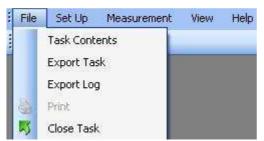


Figure 4.54 File pull-down: Export Task

Select the channels for which measurements data is to be exported, see Figure 4.55.

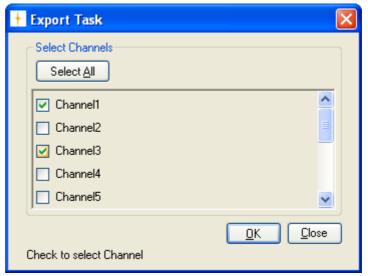


Figure 4.55 Export measurements to Excel format

Select the directory where the Excel format file should be stored, see <u>Figure 4.56</u>. The default Excel file name is the name of the current task, which can be altered if desired.

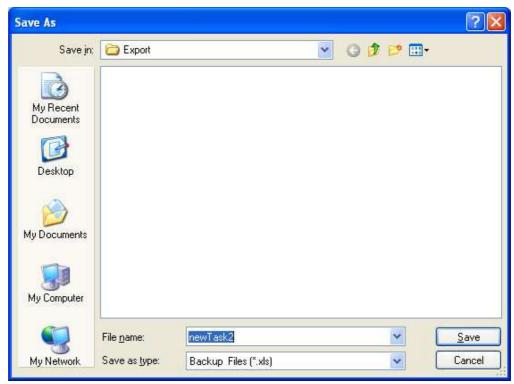


Figure 4.56 Export Excel file dialogue

When the export is finished press **Close**, see <u>Figure 4.55</u>.

The export Excel workbook file consists of several tabs.

The first tab shows the setup of the Monitor, see Figure 4.57.

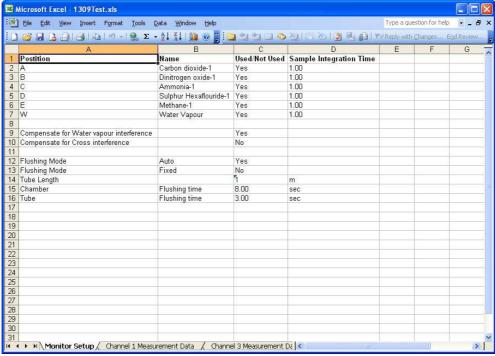


Figure 4.57 Monitor setup

The following tabs shows the measurement data for each of the channels, see Figure 4.58.

Each measurement is time stamped.

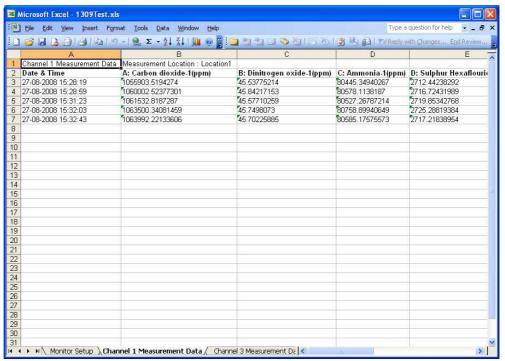


Figure 4.58 Channel measurement data.

#### 4.6 Errors/Warnings Window

The Errors/Warnings window can be switched on/off by using the **View** menu pull-down **Errors/Warnings Window**.

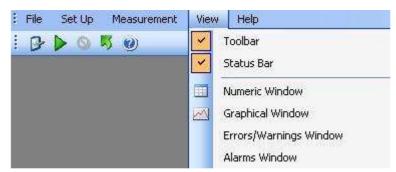


Figure 4.59 View pull-down: Errors/Warnings Window

Warnings and errors while running the LumaSoft Gas application will be shown in the **Errors/Warnings** window, see <u>Figure 4.60</u>, and those occurring during measurement will be shown in **Measurement Errors/Warnings** window, see <u>Figure 4.61</u>

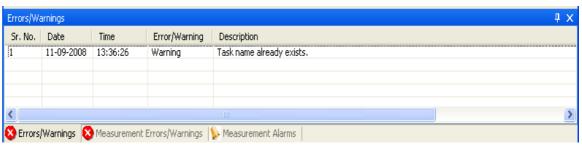


Figure 4.60 Errors/Warnings window

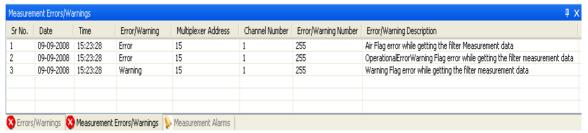


Figure 4.61 Measurement Errors/Warnings window

Measurement errors is also marked with an asterix (\*) next to the **Date Time** stamp, as shown in Figure 4.62.

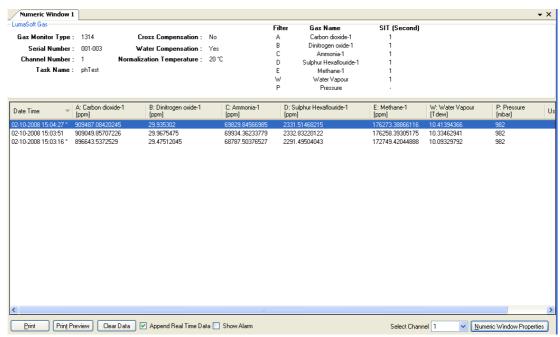


Figure 4.62 Error marking of measurements

#### 4.7 Export log

When having a task open it is possible to export 3 types of logs into CSV (comma separated files), suitable for opening in Microsoft Excel.

The 3 types of logs, which can be exported, are:

- Measurement Errors/Warnings
- User Events
- Alarms

To perform the **Export Log** select the **File** menu pull-down **Export Log**, see Figure 4.63.

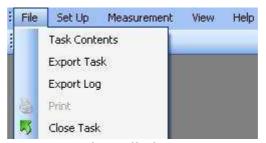


Figure 4.63 File pull-down: Export Log

Open the **Export Log** window, giving the possibility to export the 3 types of logs, see Figure 4.64. A time interval for the log can also be specified.

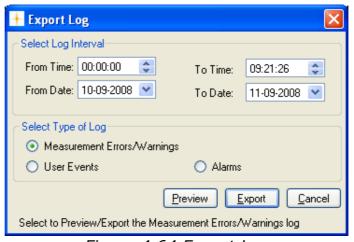


Figure 4.64 Export Log

Select one of the 3 log types in the **Select Type of Log** group box and select the **Export** soft-key to export to a CSV-file.

Select the folder where the log file should be saved, see Figure 4.65

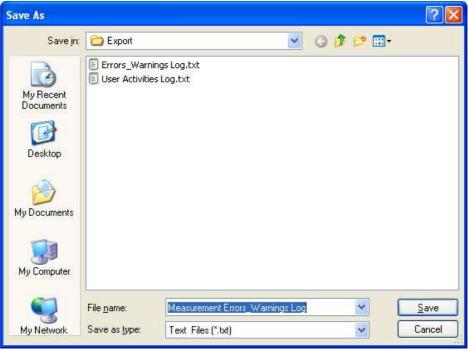


Figure 4.65 Save export log CSV file

Also a preview of the 3 log types can be made by using the **Preview** soft-key. See examples in Figure 4.66, 4.67 and 4.68.



Figure 4.66 Measurement Errors/Warnings log preview



Figure 4.67 User Events log preview



Figure 4.68 Alarms log preview

## **Chapter 5**

# **Database Management**

May 2009

- Export Task (<u>Section 5.1</u>)
- Export/Import Task configuration (Section 5.2)
- Backup/Restore/Delete Task (<u>Section 5.3</u>)
- Export Log (Section 5.4)

#### **5.1 Export Task**

To view the data in another format and do further calculations on data, it is possible to export obtained data to Microsoft Excel.

# Please note that Microsoft Office must be installed for the export task functionality to work.

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.1 User Login

Select Export Task in the File pull-down menu.

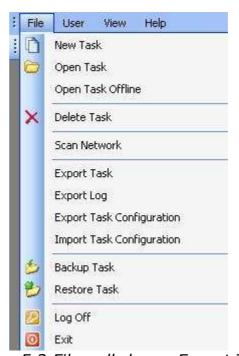


Figure 5.2 File pull-down: Export Task

The Export Task <u>Figure 5.3</u> window will appear.

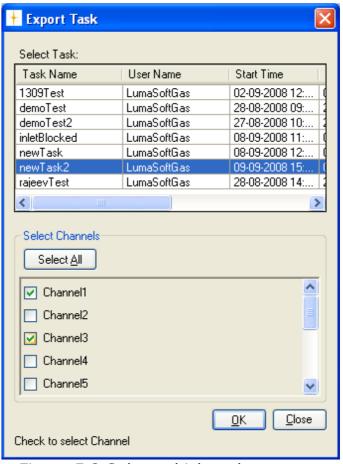


Figure 5.3 Select which task to export

Select the task to be exported to Excel and the channels from which to view the data. Press **OK** to proceed.

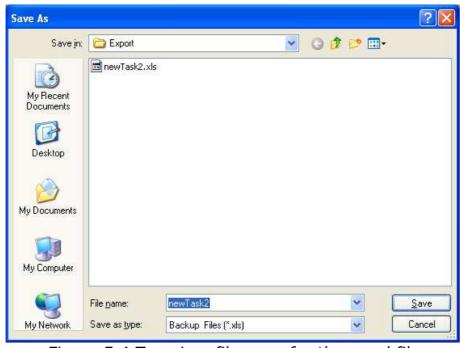


Figure 5.4 Type in a filename for the excel file

Search for a folder where the task should be stored, and type in a name for the task in the field: **File Name**, see <u>Figure 5.4</u>.

The default file name for the excel file is the name of the export task.

Press the **Save** soft-key to save the Excel file, see Figure 5.4.

Press **Close** (see Figure 5.3) when the Excel file has been exported.

The exported task can be opened in Excel format from the above selected folder.

The Excel spread sheet contains information about the setup of the specific measurement in the first tab of the Excel file, see Figure 5.5, and the measurement data for each channel of the multiplexer in the following tab(s), se <u>Figure 5.6</u>.

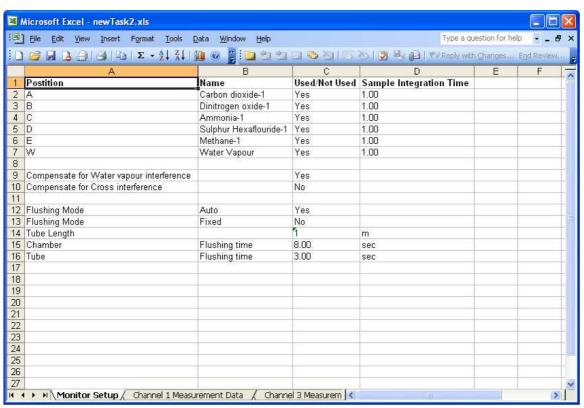


Figure 5.5 Excel file: Monitor setup tab.

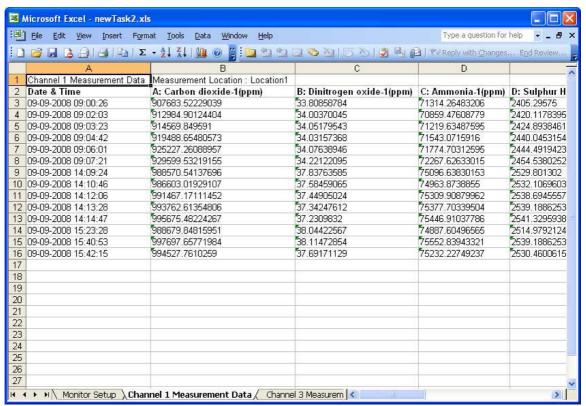


Figure 5.6 Excel file: Measurement data tab.

#### 5.2 Export/Import Task Configuration

The task configuration export makes an export of a task setup into a file in xml format.

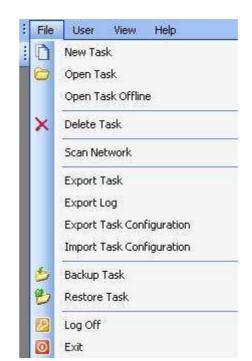
The advantage is that once a task has been setup and a backup has been made with the export task configuration, it can be reused by doing an import of the task configuration. This saves the work of doing the same setup again.

### 5.2.1 Export task configuration

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.7 User Login



#### Select **Export Task Configuration** in the **File** pull-down menu.

Figure 5.8 File pull-down: Export Task Configuration

The following window will appear.

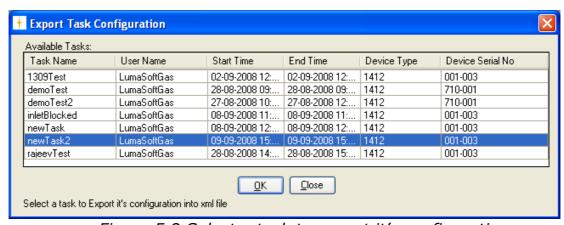


Figure 5.9 Select a task to export it's configuration

Select the task for which the configuration is to be exported to a xmlfile. Press **OK** to proceed. (See Figure 5.9)

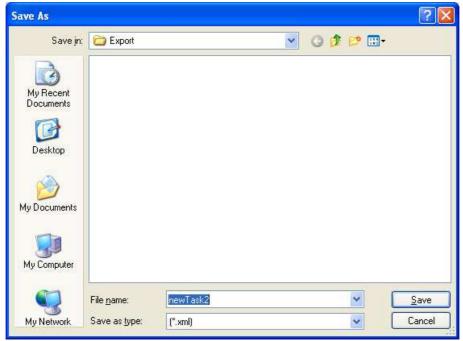


Figure 5.10 Type in a filename for the xml task configuration file

Search for a folder where the xml task configuration should be stored, and type in a name for the task configuration file in the field: **File Name**. (See Figure 5.10)

The default file name for the xml configuration file is the name of the task that is having it's configuration exported.

Press the Save soft-key to save the xml task configuration file. (See Figure 5.10)

Press **Close** when the task configuration file has been saved. (See Figure 5.9)

## **5.2.2** Import Task Configuration

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.11 User Login

Select Import Task Configuration in the File pull-down menu.

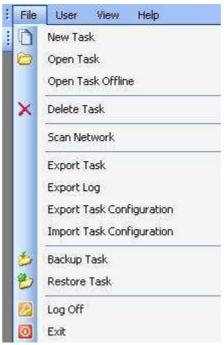


Figure 5.12 File pull-down: Import Task Configuration

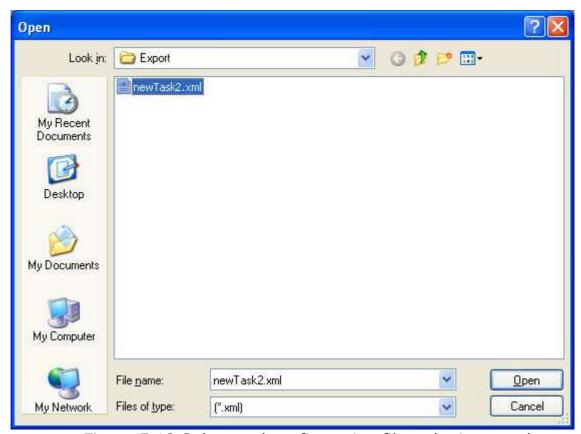


Figure 5.13 Select xml configuration file to be imported

Select the xml file to import.

After having opened the xml file the following message might appear, if the task already exist in the database.

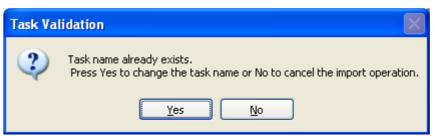


Figure 5.14 Task Validation window

After pressing the **Yes** soft-key you can define a new task name for the imported task, see Figure 5.15.

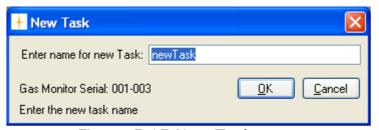


Figure 5.15 New Task name

Press the **OK** soft-key to import the task configuration.

## 5.3 Backup/Restore/Delete Task

This function enables to backup and restore measurement tasks stored in the SQL Server database.

The backup will contain both setup and measurement data.

Please note that users with the Operator access level cannot make a backup/restore of a task.

Also note that only users with the Super access level can delete a task.

### 5.3.1 Backup Task

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.16 User Login

Select **Backup Task** in the **File** pull-down menu, see Figure 5.17.

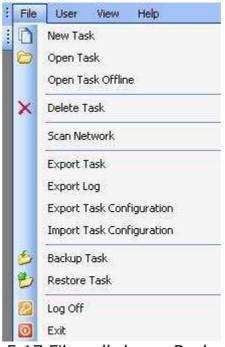


Figure 5.17 File pull-down: Backup Task

A window will appear, showing the available tasks for backup.

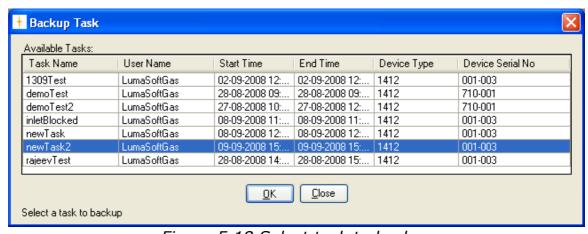


Figure 5.18 Select task to backup

Select the task for which a backup file is to be made, and press **OK** to proceed.

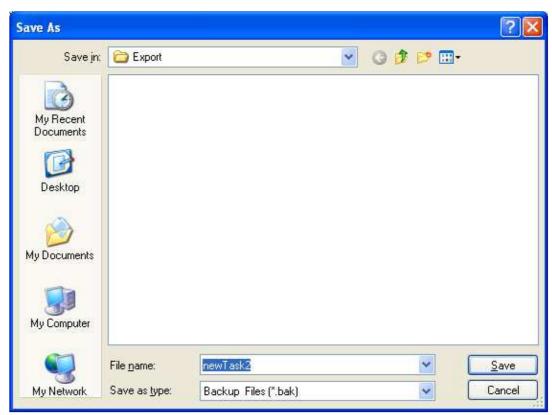


Figure 5.19 Type in a filename

Search for a folder where the task backup file should be stored and type in a filename in the window shown in Figure 5.19.

The default file name for the task backup file is the name of the task selected for backup.

Press the **Save** soft-key to save the Backup file. (See Figure 5.19)

Press the **Close** soft-key after the backup. (See <u>Figure 5.18</u>)

If you do not have sufficient rights to make the backup, you will get a Backup failed message, see Figure 5.20. In that case you must ensure that the group **Everyone** has the full rights for the backup folder.

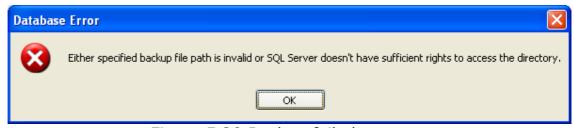


Figure 5.20 Backup failed message

Check with your system administrator that the following rights for the group **Everyone** are created for the backup folder (<u>Figure 5.21</u>).

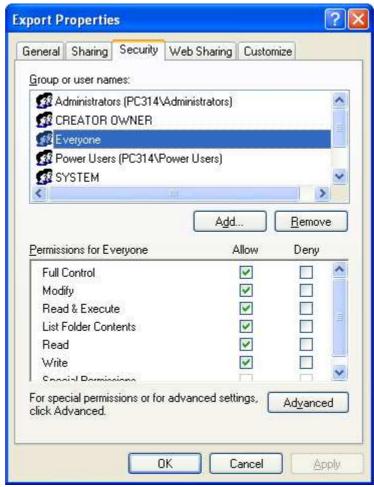


Figure 5.21 Backup folder rights for group Everyone

#### 5.3.2 Restore Task

All backup files, made using the **Backup Task** function, can be restored.

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.22 User Login

Select **Restore Task** in the **File** pull-down menu (<u>Figure 5.23</u>).

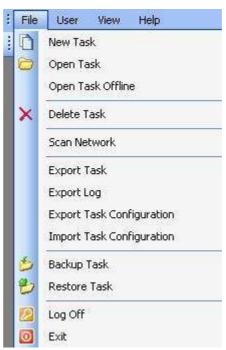


Figure 5.23 File pull-down: Restore Task Configuration

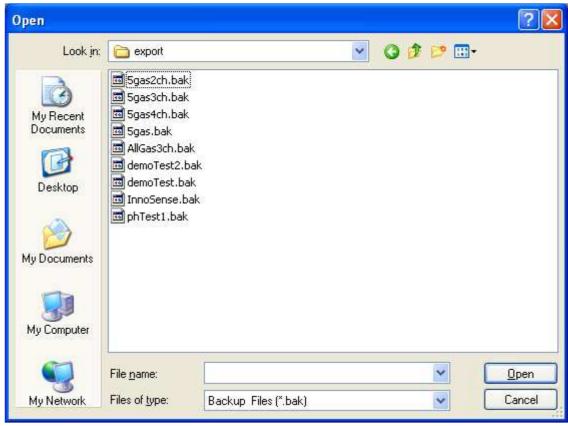


Figure 5.24 Select which task to restore

In Figure 5.24 select which of the stored tasks to restore and press **Open**.

In case that the task already exists in the SQL database the following message will appear, where it is possible if desired to confirm the overwriting of the existing task.

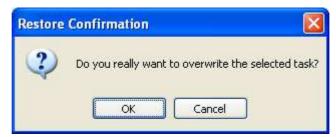


Figure 5.25 Confirm overwrite when restoring

#### 5.3.3 Delete Task

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.26 User Login

Select **Delete Task** in the **File** pull-down menu (Figure 5.27) or select the  $\bowtie$  icon from the task bar.

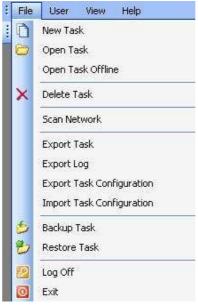


Figure 5.27 File pull-down: Delete Task

A window will appear showing all existing tasks.

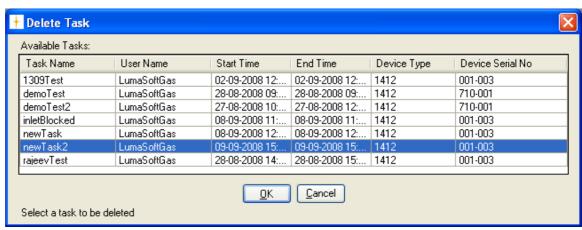


Figure 5.28 Select which task to delete

Select the task which should be deleted and press **OK** (See Figure 5.28). The following window will pop up to make sure that the user wants to delete the task.

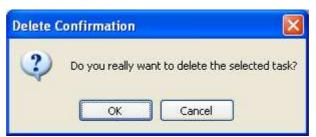


Figure 5.29 Press **OK** if the task should be deleted

## 5.4 Export Log

When not having a task open it is possible to export 2 types of logs into CSV (comma separated files), suitable for opening in Microsoft Excel.

The 2 types of logs, which can be exported, are:

- User Activities
- Errors Warnings

If the LumaSoft Gas application is not started start it and login with username and password.



Figure 5.30 User Login

Select **Export Log** in the **File** pull-down menu (Figure 5.31).

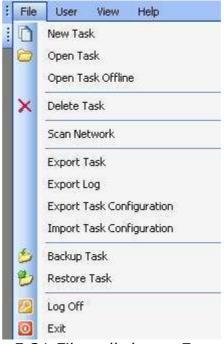


Figure 5.31 File pull-down: Export Log

The **Export Log** window opens, giving the possibility to export the 2 types of logs, see <u>Figure 5.32</u>. A time interval for the log can also be specified.

The **User Activities** log shows the history for user actions (<u>Figure 5.35</u>).

The **Errors/Warnings** log shows error and warnings messages presented for the user (<u>Figure 5.34</u>).



Figure 5.32 Export Log

Select one of the 2 log types in the **Select Type of Log** group box and select the **Export** soft-key to export to a CSV-file.

Select the folder where the log file should be saved, see Figure 5.33

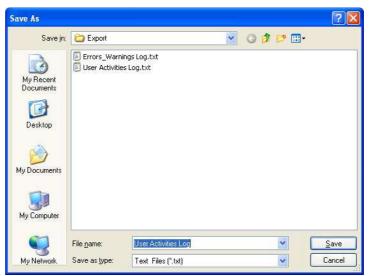


Figure 5.33 Save export log CSV file

Also a preview of the 2 log types can be made by using the **Preview** soft-key. See examples in <u>Figure 5.34</u> and <u>Figure 5.35</u>.

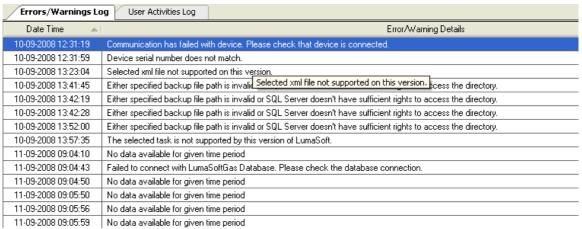


Figure 5.34 Error/Warnings log preview

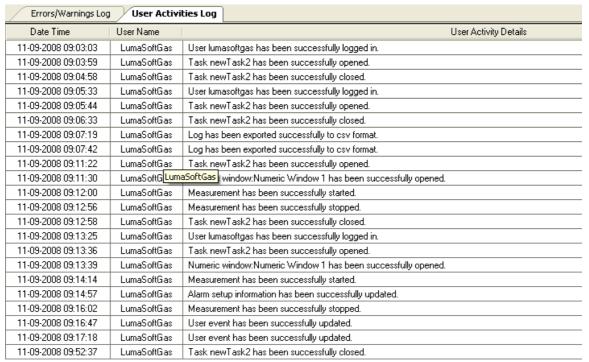


Figure 5.35 User Activities log preview

## **Chapter 6**

# **Warning and Error Messages**

May 2009

Warning and Errors occurring during the operation of the LumaSoft Gas application will be shown in 2 windows at the bottom of the application.

How to enable the view of these 2 Warning and Error windows is described in <u>Section 4.6</u>.

The Warnings and errors occurring during measurement will appear in the **Measurement Errors/Warnings window**, see Figure 6.1.

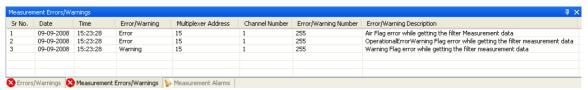


Figure 6.1 Measurement Errors/Warnings window

The Warnings and Errors shown in the **Measurement Errors/Warnings window** originates either from the Monitor or the Multiplexer.

#### **6.1 Monitor Error/Warnings**

The Warnings and Errors which originates from the Gas Monitor is described in chapter 17 in the manual "BE6011 Instruction Manual, 1314 Photoacoustic Multi-gas Monitor / 1412 Photoacoustic Field Gas-Monitor".

Warning/errors originating from the Monitor will be given the **Error/Warning Number** 255, as shown in Figure 6.1.

## 6.2 Multiplexer (Multipoint sampler) Error/Warnings

The warnings and errors which originates from the Multiplexer is described in Section 3.7.4 and 3.7.5 in the manual "BE1285 User Manual for 1309 Multipoint Sampler" and in Section 3.9.4 and 3.9.5 in the manual "BE1085 User Manual for 1303 Multipoint Sampler and Doser".

The **Error/Warning Number** will show the Warning flag value and Error flag value as specified in the above 1309/1303 multipoint sampler manuals.

# **Appendix A**

## **Installation Guide**

May 2009

- 1. When installing the LumaSoft Gas software you must be logged in as Administrator that means that you must have "administrator" rights.

  Please also note that you must have Administrator rights or Power User rights to run the LumaSoft Gas application after installation.
- 2. Start the installation of LumaSoft Gas. Insert the CD into the CD-drive and wait for auto-start of the CD. If auto-start is disabled run LumaSoftinstaller.exe self-executable file on the installation CD to start the installation. It will automatically install all the necessary packages required to run the LumaSoft Gas application.

After starting the installer the following window appears after a while. Press the **OK** button to continue:

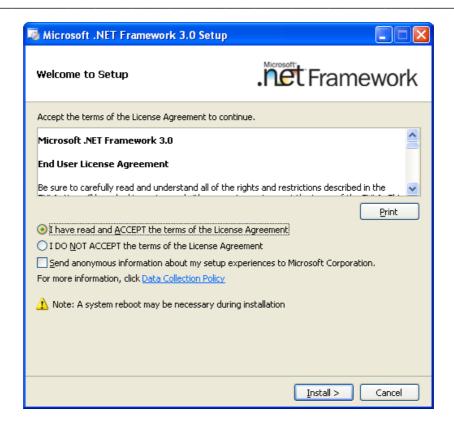


The installer will start unpacking with the following message.

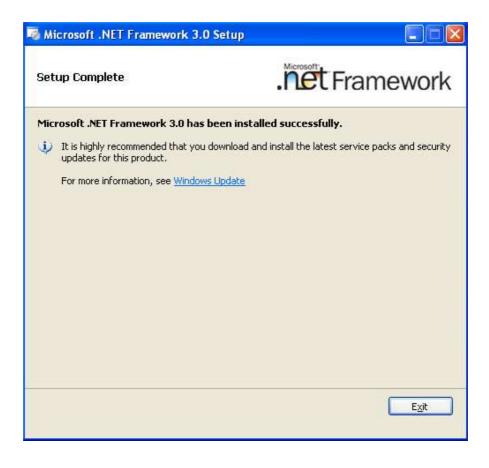


**3.** First installer will check for the ". NET 3.0 Framework", whether it is already installed on the target PC. It will install the ". NET 3.0 Framework" if it is not already installed otherwise it will skip the ". NET 3.0 Framework" installations. If ". NET 3.0 Framework" is already installed please continue to step 4. in this installation guide.

Click the "I have read and ACCEPT the terms..." and press the Install button to continue. Wait for the .NET Framework 3.0 to install. It will install silently (progress can be checked by double-clicking the icon in the system tray in the lower right corner).



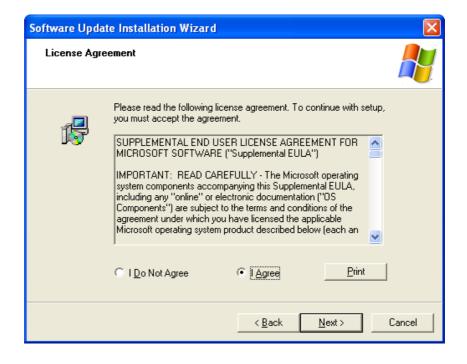
When ". NET 3.0 Framework" is installed the following window appears. Press **Exit** to continue.



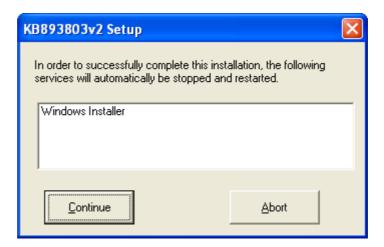
**4.** The installer will check for the "Windows Installer 3.1" or higher, if it is already installed on target PC or not. It will install the "Windows Installer 3.1" if it is not already installed otherwise it will skip the "Windows Installer 3.1" installations. If "Windows Installer 3.1" is already installed the following window will not appear and you can continue to step 5. in this installation guide.



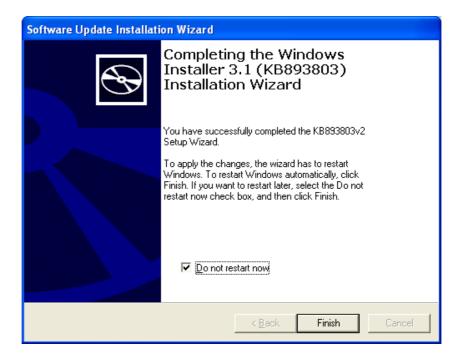
Press Next to continue. Select "I Agree" and press Next to continue.



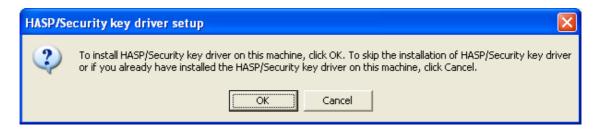
#### Select Continue.



After installation of Windows Installer 3.1 tick "**Do not restart now**" and press **Finish**.



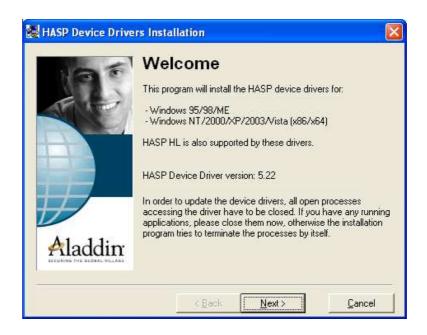
**5.** The installer will ask you to install "HASP security key driver". You can skip this if you have "HASP security key driver" already installed on the local PC. If you select OK, it will start the installation.



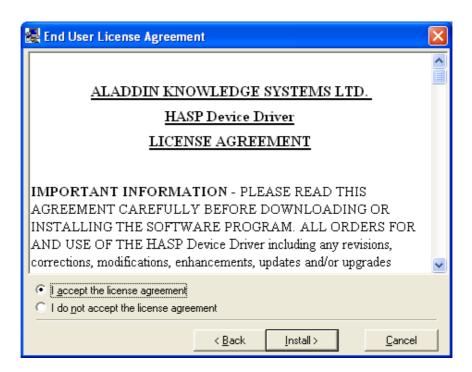
Select your preferred installation language and press **OK**.



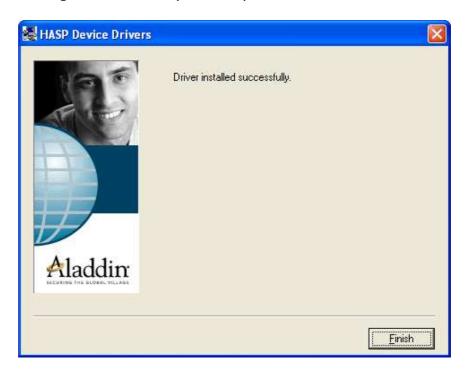
Press **Next** to continue.



Choose "I accept the license agreement" and press the Install button.



After installing the HASP key driver press **Finish**.



**6.** The following window will appear. Press the **OK** button to install the "SQL-Express 2005" database.



Then wait for the installation of the SQL-Express 2005 database to finish.



**7.** After installing "SQL-Express 2005", the following window appears. **Press the OK button** to continue.



8. The installer will install the DTS server. Press Next to continue.



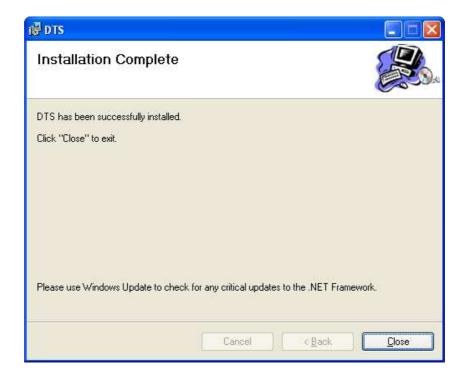
## Select install for **Everyone** and press **Next**



Select **Next** to confirm installation of DTS.



After installation of DTS press Close.



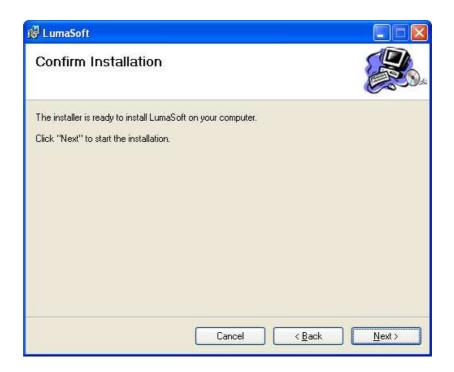
**9.** After successful installation of DTS server the LumaSoft Gas installation will start. Press **Next** to start installation of LumaSoft.



### Select install for **Everyone** and press **Next**



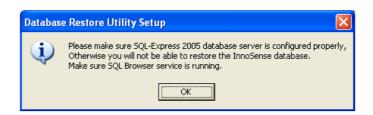
#### Select **Next** to confirm installation of LumaSoft



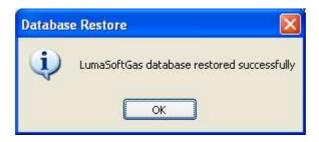
After installation of LumaSoft press Close.



**10.** The following window will appear. Before pressing **OK** to proceed.



- **11.** Now the LumaSoftGas database will be installed on your local PC. This will take a while.
- **12.** After successful installation of the database the following message appears.



**13.** Installation of the LumaSoft Gas software was successful if all the installation succeeded.

You press **OK** to finish the installation.



**13A.** Installations failed if there was any error during the installation.

This finalises the installation of the LumaSoft Gas software.

# **Appendix B**

Remote SQL Server database installation

May 2009

This appendix explains how to configure LumaSoft Gas to have its database on a foreign PC's SQL database server.

#### B.1 Remote installation of the LumaSoft Gas database

The LumaSoft Gas database, which keeps a store all the task and measurement data, is by **default** resident on the same PC as the LumaSoft Gas 7800/7850 application.

**Default** in the meaning that the installer package will automatically install the database on the same PC as the LumaSoft Gas 7800/7850 application.

It is possible to configure the LumaSoft Gas application to have the LumaSoft Gas database on a foreign PC's **SQL Database Server** accessible through the network.

#### B.2 Finding the Computer name of the foreign PC

In order to configure the LumaSoft Gas application to recognize the database on the foreign PC you need to know its **Computer Name**.

On the foreign PC please do the following.

# On Windows XP: Select start-> My Computer-> right click-> Properties



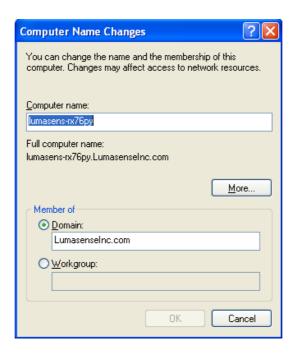
On Windows Vista: Select Start-> Computer-> right click-> Properties

Select the **Computer Name** tab.

On Windows Vista: Observe "Computer name:" and write it down for later use. Close the System window. Continue with the last line on this page.



Click the Change button to open the Computer Name Changes window



Observe the Computer name and write it down for later use.

Close the windows **Computer Name Changes** and **Computer Name**.

### B.3 Restore(Store) the database onto a foreign PC's SQL Server

To install the database on the SQL Server on a foreign PC

After successful installation of the LumaSoft Gas software package the LumaSoft Gas Database Restore utility will appear to restore the LumaSoftGas database. Here you need to restore the LumaSoftGas database.

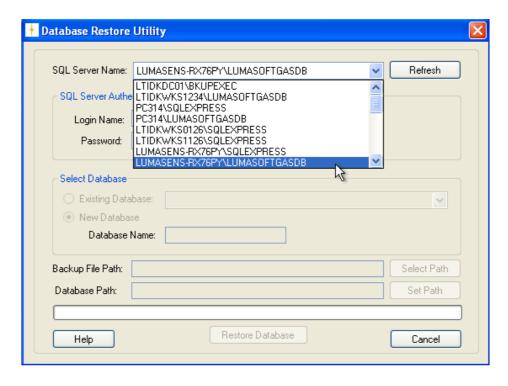
### Start the **Database Restore** utility using:

Go to Start -> Program -> LumaSense -> Database Restore click LumaSoftGas Database Restore.



LumaSoftGas Database Utility dialog will appear.

#### The **Database Restore Utility** window opens.

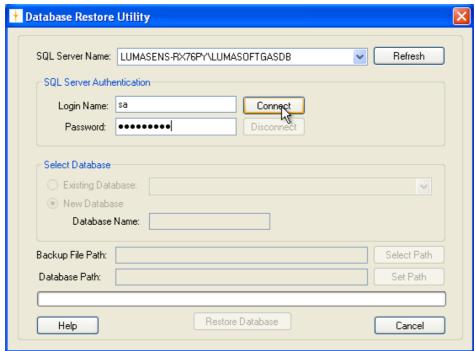


After a while the "**SQL Server Name**" presents a list of SQL Server database instances found on the local PC and on the network.

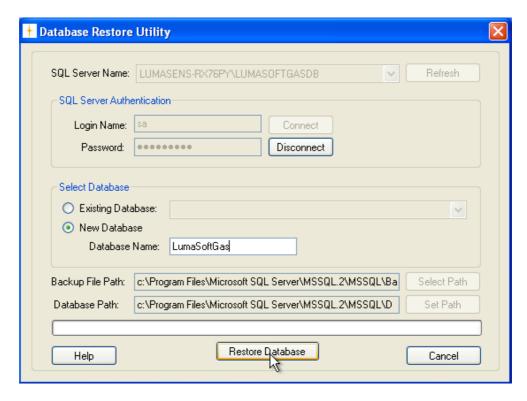
Select the **Computer Name** found on the foreign PC (that is use the Computer Name as you have written down in the last section B.2). In this example it is named "LUMASENS-RX76PY".

If no SQL server database list appears after a while you can select the "Refresh" button to again look for SQL Server database instances.

Use the Login Name: **sa** and Password: **Lumasoft1** and press the "Connect" button.



After connect you type the Database Name: **LumaSoftGas** and select the "Restore Database" button. Please observe that upper and lower case letters in the Database Name is important.



After successful restore of the database the following message appears.



# B.4 Configure LumaSoft Gas 7800/7850 to use a database on a foreign PC's SQL Server

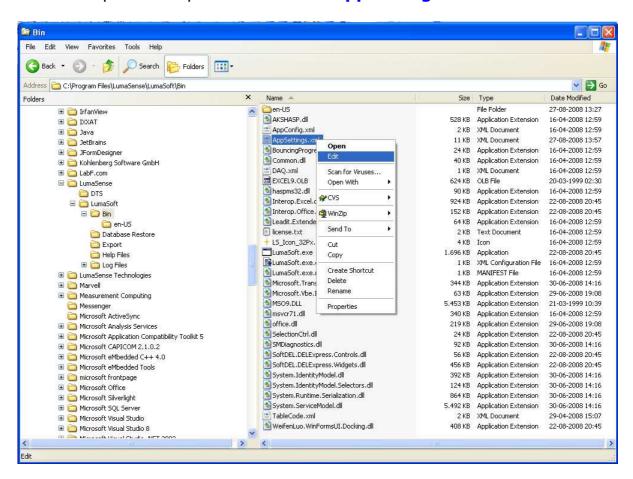
If you have the SQL Server installed on a remote PC, the Database connection setting must be changed as per the installation of SQL-Express 2005. To do so you need to change the DataBase-Parameter in **AppSettings.xml** file.

You can find this file inside the

"Installation Directory\LumaSense\LumaSoft\Bin" directory.

Where "Installation Directory" is the installation path selected during installation procedure, normally "c:\Program Files"

Use the Windows Explorer to open and edit the "AppSettings.xml"



Do a file search for the <DataBase-Parameter> tag and modify the contents of <SqlServerConnectionString> tag. Here the Server= setting must be changed . Do not modify the rest of the settings of the <SqlServerConnectionString> tag.

Server is the name of the PC where the SQL Express database is installed. If the SQL Express database is installed on the same PC that the LumaSoft Gas software is installed on, then "Server" should be given the name of your local PC (Computer

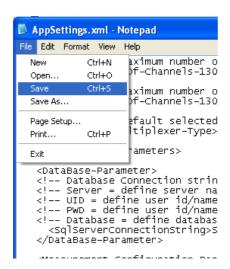
Name). If the SQL Express database is installed on a foreign PC than LumaSoft Gas software is installed on, then "Server" should be given the name of the foreign PC.

The Server name (Server) should be specified as: <name of PC with SQL Express database>\LUMASOFTGASDB

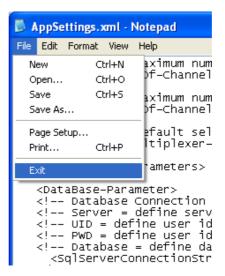
If for instance the PC (use the Computer Name you have written down) with the SQL Server is named LUMASENS-RX76PY, the Server setting should be modified like shown below in bold.



## Save the change.



#### Exit the editor.



# **Appendix C**

# **OPC Server Tags**

May 2009

This appendix contains a list of all the OPC Server tags offered by LumaSoft Gas.

These tags will be active when a measurement is running. When running without a Multipoint Sampler the Channel 1 OPC tags will be used for the measurement results.

Please note that the OPC tags only are present in the 7850 Multipoint version and not in the 7800 Single point version of LumaSoft Gas.

OPC Server Tags		
	Data	
Tag Name	type	OPC ItemID
Channel 1 Gas A Concentration	Float	Channel1/GasA/Concentration/1010100
Channel 1 Gas A Alarm HH occurred	Boolean	Channel1/GasA/AlarmHHOccurred/1010200
Channel 1 Gas A Alarm H occurred	Boolean	Channel1/GasA/AlarmHOccurred/1010300
Channel 1 Gas A Alarm L occurred	Boolean	Channel1/GasA/AlarmLOccurred/1010400
Channel 1 Gas A Alarm LL occurred	Boolean	Channel1/GasA/AlarmLLOccurred/1010500
Channel 1 Filter A alignment error flag	Boolean	Channel1/FilterA/AlignmentErrorFlag/1010600
Channel 1 Gas B Concentration	Float	Channel1/GasB/Concentration/1020100
Channel 1 Gas B Alarm HH occurred	Boolean	Channel1/GasB/AlarmHHOccurred/1020200
Channel 1 Gas B Alarm H occurred	Boolean	Channel1/GasB/AlarmHOccurred/1020300
Channel 1 Gas B Alarm L occurred	Boolean	Channel1/GasB/AlarmLOccurred/1020400
Channel 1 Gas B Alarm LL occurred	Boolean	Channel1/GasB/AlarmLLOccurred/1020500
Channel 1 Filter B alignment error flag	Boolean	Channel1/FilterB/AlignmentErrorFlag/1020600
Channel 1 Gas C Concentration	Float	Channel1/GasC/Concentration/1030100
Channel 1 Gas C Alarm HH occurred	Boolean	Channel1/GasC/AlarmHHOccurred/1030200
Channel 1 Gas C Alarm H occurred	Boolean	Channel1/GasC/AlarmHOccurred/1030300
Channel 1 Gas C Alarm L occurred	Boolean	Channel1/GasC/AlarmLOccurred/1030400
Channel 1 Gas C Alarm LL occurred	Boolean	Channel1/GasC/AlarmLLOccurred/1030500
Channel 1 Filter C alignment error flag	Boolean	Channel1/FilterC/AlignmentErrorFlag/1030600
Channel 1 Gas D Concentration	Float	Channel1/GasD/Concentration/1040100
Channel 1 Gas D Alarm HH occurred	Boolean	Channel1/GasD/AlarmHHOccurred/1040200
Channel 1 Gas D Alarm H occurred	Boolean	Channel1/GasD/AlarmHOccurred/1040300
Channel 1 Gas D Alarm L occurred	Boolean	Channel1/GasD/AlarmLOccurred/1040400
Channel 1 Gas D Alarm LL occurred	Boolean	Channel1/GasD/AlarmLLOccurred/1040500
Channel 1 Filter D alignment error flag	Boolean	Channel1/FilterD/AlignmentErrorFlag/1040600
Channel 1 Gas E Concentration	Float	Channel1/GasE/Concentration/1050100
Channel 1 Gas E Alarm HH occurred	Boolean	Channel1/GasE/AlarmHHOccurred/1050200
Channel 1 Gas E Alarm H occurred	Boolean	Channel1/GasE/AlarmHOccurred/1050300
Channel 1 Gas E Alarm L occurred	Boolean	Channel1/GasE/AlarmLOccurred/1050400
Channel 1 Gas E Alarm LL occurred	Boolean	Channel1/GasE/AlarmLLOccurred/1050500
Channel 1 Filter E alignment error flag	Boolean	Channel1/FilterE/AlignmentErrorFlag/1050600
Channel 1 Gas W Concentration	Float	Channel1/GasW/Concentration/1060100
Channel 1 Gas W Alarm HH occurred	Boolean	Channel1/GasW/AlarmHHOccurred/1060200
Channel 1 Gas W Alarm H occurred	Boolean	Channel1/GasW/AlarmHOccurred/1060300
Channel 1 Gas W Alarm L occurred	Boolean	Channel1/GasW/AlarmLOccurred/1060400
Channel 1 Gas W Alarm LL occurred	Boolean	Channel1/GasW/AlarmLLOccurred/1060500
Channel 1 Filter W alignment error flag	Boolean	Channel1/FilterW/AlignmentErrorFlag/1060600
Channel 1 Pressure	Float	Channel1/Pressure/1500100
Channel 1 Gas Monitor Air flag	Boolean	Channel1/GasMonitor/Airflag/1500200
Channel 1 Gas Monitor Error flag	Boolean	Channel1/GasMonitor/Errorflag/1500300
Channel 1 Gas Monitor Warning flag	Boolean	Channel1/GasMonitor/Warningflag/1500400

Channel 1 Monitor Display Error Message	String	Channel1/GasMonitor/MonitorDisplayErrorMessage/1500500
Channel 1 Monitor Display Warning Message	String	Channel1/GasMonitor/MonitorDisplayWarningMessage/1500600
Channel 1 Multiplexer error flag	Boolean	Channel1/Multiplexer/errorflag/1600100
Channel 1 Multiplexer warning flag	Boolean	Channel1/Multiplexer/warningflag/1600200
Channel 1 Multiplexer error number	Long	Channel1/Multiplexer/errornumber/1600300
Channel 1 Multiplexer warning number	Long	Channel1/Multiplexer/warningnumber/1600400
Channel 1 Multiplexer Error Description	String	Channel1/Multiplexer/ErrorDescription/1600600
Channel 1 Multiplexer Warning Description	String	Channel1/Multiplexer/WarningDescription/1600700
Channel 2 Gas A Concentration	Float	Channel2/GasA/Concentration/2010100
Channel 2 Gas A Alarm HH occurred		
	Boolean	Channel2/GasA/AlarmHHOccurred/2010200 Channel2/GasA/AlarmHOccurred/2010300
Channel 2 Cas A Alarm H occurred	Boolean	Channel2/GasA/AlarmLOccurred/2010400
Channel 2 Gas A Alarm L occurred	Boolean	
Channel 2 Gas A Alarm LL occurred	Boolean	Channel2/GasA/AlarmLLOccurred/2010500
Channel 2 Filter A alignment error flag	Boolean	Channel2/FilterA/AlignmentErrorFlag/2010600
Channel 2 Gas B Concentration	Float	Channel2/GasB/Concentration/2020100
Channel 2 Gas B Alarm HH occurred	Boolean	Channel2/GasB/AlarmHHOccurred/2020200
Channel 2 Gas B Alarm H occurred	Boolean	Channel2/GasB/AlarmHOccurred/2020300
Channel 2 Gas B Alarm L occurred	Boolean	Channel2/GasB/AlarmLOccurred/2020400
Channel 2 Gas B Alarm LL occurred	Boolean	Channel2/GasB/AlarmLLOccurred/2020500
Channel 2 Filter B alignment error flag	Boolean	Channel2/FilterB/AlignmentErrorFlag/2020600
Channel 2 Gas C Concentration	Float	Channel2/GasC/Concentration/2030100
Channel 2 Gas C Alarm HH occurred	Boolean	Channel2/GasC/AlarmHHOccurred/2030200
Channel 2 Gas C Alarm H occurred	Boolean	Channel2/GasC/AlarmHOccurred/2030300
Channel 2 Gas C Alarm L occurred	Boolean	Channel2/GasC/AlarmLOccurred/2030400
Channel 2 Gas C Alarm LL occurred	Boolean	Channel2/GasC/AlarmLLOccurred/2030500
Channel 2 Filter C alignment error flag	Boolean	Channel2/FilterC/AlignmentErrorFlag/2030600
Channel 2 Gas D Concentration	Float	Channel2/GasD/Concentration/2040100
Channel 2 Gas D Alarm HH occurred	Boolean	Channel2/GasD/AlarmHHOccurred/2040200
Channel 2 Gas D Alarm H occurred	Boolean	Channel2/GasD/AlarmHOccurred/2040300
Channel 2 Gas D Alarm L occurred	Boolean	Channel2/GasD/AlarmLOccurred/2040400
Channel 2 Gas D Alarm LL occurred	Boolean	Channel2/GasD/AlarmLLOccurred/2040500
Channel 2 Filter D alignment error flag	Boolean	Channel2/FilterD/AlignmentErrorFlag/2040600
Channel 2 Gas E Concentration	Float	Channel2/GasE/Concentration/2050100
Channel 2 Gas E Alarm HH occurred	Boolean	Channel2/GasE/AlarmHHOccurred/2050200
Channel 2 Gas E Alarm H occurred	Boolean	Channel2/GasE/AlarmHOccurred/2050300
Channel 2 Gas E Alarm L occurred	Boolean	Channel2/GasE/AlarmLOccurred/2050400
Channel 2 Gas E Alarm LL occurred	Boolean	Channel2/GasE/AlarmLLOccurred/2050500
Channel 2 Filter E alignment error flag	Boolean	Channel2/FilterE/AlignmentErrorFlag/2050600
Channel 2 Gas W Concentration	Float	Channel2/GasW/Concentration/2060100
Channel 2 Gas W Alarm HH occurred	Boolean	Channel2/GasW/AlarmHHOccurred/2060200
Channel 2 Gas W Alarm H occurred	Boolean	Channel2/GasW/AlarmHOccurred/2060300
Channel 2 Gas W Alarm L occurred	Boolean	Channel2/GasW/AlarmLOccurred/2060400
Channel 2 Gas W Alarm LL occurred	Boolean	Channel2/GasW/AlarmLLOccurred/2060500
Channel 2 Filter W alignment error flag	Boolean	Channel2/FilterW/AlignmentErrorFlag/2060600
Channel 2 Pressure	Float	Channel2/Pressure/2500100
Channel 2 Gas Monitor Air flag	Boolean	Channel2/GasMonitor/Airflag/2500200
Channel 2 Gas Monitor Error flag	Boolean	Channel2/GasMonitor/Errorflag/2500300
Channel 2 Gas Monitor Warning flag	Boolean	Channel2/GasMonitor/Warningflag/2500400
Channel 2 Monitor Display Error Message	String	Channel2/GasMonitor/MonitorDisplayErrorMessage/2500500
Channel 2 Monitor Display Warning Message	String	Channel2/GasMonitor/MonitorDisplayWarningMessage/2500600
Channel 2 Multiplexer error flag	Boolean	Channel2/Multiplexer/errorflag/2600100
Channel 2 Multiplexer warning flag	Boolean	Channel2/Multiplexer/warningflag/2600200

Channel 2 Multipleyer error number	Long	Channel 3/Multiple ver/errorn umb er/2600300
Channel 2 Multiplexer error number	Long Long	Channel2/Multiplexer/errornumber/2600300
Channel 2 Multiplexer Warning number		Channel2/Multiplexer/warningnumber/2600400
Channel 2 Multiplexer Error Description Channel 2 Multiplexer Warning Description	String String	Channel2/Multiplexer/ErrorDescription/2600600 Channel2/Multiplexer/WarningDescription/2600700
	Float	
Channel 3 Gas A Alarm IIII assured		Channel3/GasA/Concentration/3010100
Channel 3 Gas A Alarm HH occurred	Boolean	Channel3/GasA/AlarmHHOccurred/3010200
Channel 3 Gas A Alarm H occurred	Boolean	Channel3/GasA/AlarmHOccurred/3010300 Channel3/GasA/AlarmLOccurred/3010400
Channel 3 Gas A Alarm L occurred	Boolean	
Channel 3 Gas A Alarm LL occurred	Boolean	Channel3/GasA/AlarmLLOccurred/3010500
Channel 3 Filter A alignment error flag	Boolean	Channel3/FilterA/AlignmentErrorFlag/3010600
Channel 3 Gas B Concentration	Float	Channel3/GasB/Concentration/3020100
Channel 3 Gas B Alarm HH occurred	Boolean	Channel3/GasB/AlarmHHOccurred/3020200
Channel 3 Gas B Alarm H occurred	Boolean	Channel3/GasB/AlarmHOccurred/3020300
Channel 3 Gas B Alarm L occurred	Boolean	Channel3/GasB/AlarmLOccurred/3020400
Channel 3 Gas B Alarm LL occurred	Boolean	Channel3/GasB/AlarmLLOccurred/3020500
Channel 3 Filter B alignment error flag	Boolean	Channel3/FilterB/AlignmentErrorFlag/3020600
Channel 3 Gas C Concentration	Float	Channel3/GasC/Concentration/3030100
Channel 3 Gas C Alarm HH occurred	Boolean	Channel3/GasC/AlarmHHOccurred/3030200
Channel 3 Gas C Alarm H occurred	Boolean	Channel3/GasC/AlarmHOccurred/3030300
Channel 3 Gas C Alarm L occurred	Boolean	Channel3/GasC/AlarmLOccurred/3030400
Channel 3 Gas C Alarm LL occurred	Boolean	Channel3/GasC/AlarmLLOccurred/3030500
Channel 3 Filter C alignment error flag	Boolean	Channel3/FilterC/AlignmentErrorFlag/3030600
Channel 3 Gas D Concentration	Float	Channel3/GasD/Concentration/3040100
Channel 3 Gas D Alarm HH occurred	Boolean	Channel3/GasD/AlarmHHOccurred/3040200
Channel 3 Gas D Alarm H occurred	Boolean	Channel3/GasD/AlarmHOccurred/3040300
Channel 3 Gas D Alarm L occurred	Boolean	Channel3/GasD/AlarmLOccurred/3040400
Channel 3 Gas D Alarm LL occurred	Boolean	Channel3/GasD/AlarmLLOccurred/3040500
Channel 3 Filter D alignment error flag	Boolean	Channel3/FilterD/AlignmentErrorFlag/3040600
Channel 3 Gas E Concentration	Float	Channel3/GasE/Concentration/3050100
Channel 3 Gas E Alarm HH occurred	Boolean	Channel3/GasE/AlarmHHOccurred/3050200
Channel 3 Gas E Alarm H occurred	Boolean	Channel3/GasE/AlarmHOccurred/3050300
Channel 3 Gas E Alarm L occurred	Boolean	Channel3/GasE/AlarmLOccurred/3050400
Channel 3 Gas E Alarm LL occurred	Boolean	Channel3/GasE/AlarmLLOccurred/3050500
Channel 3 Filter E alignment error flag	Boolean	Channel3/FilterE/AlignmentErrorFlag/3050600
Channel 3 Gas W Concentration	Float	Channel3/GasW/Concentration/3060100
Channel 3 Gas W Alarm HH occurred	Boolean	Channel3/GasW/AlarmHHOccurred/3060200
Channel 3 Gas W Alarm H occurred	Boolean	Channel3/GasW/AlarmHOccurred/3060300
Channel 3 Gas W Alarm L occurred	Boolean	Channel3/GasW/AlarmLOccurred/3060400
Channel 3 Gas W Alarm LL occurred	Boolean	Channel3/GasW/AlarmLLOccurred/3060500
Channel 3 Filter W alignment error flag	Boolean	Channel3/FilterW/AlignmentErrorFlag/3060600
Channel 3 Pressure	Float	Channel3/Pressure/3500100
Channel 3 Gas Monitor Air flag	Boolean	Channel3/GasMonitor/Airflag/3500200
Channel 3 Gas Monitor Error flag	Boolean	Channel3/GasMonitor/Errorflag/3500300
Channel 3 Monitor Display Error Message	Boolean	Channel3/GasMonitor/MonitorDisplayErrorMessage/3500500
Channel 3 Monitor Display Warning Message	String	Channel3/GasMonitor/MonitorDisplayWarningMessage/3500600
Channel 3 Gas Monitor Warning flag	String	Channel3/GasMonitor/Warningflag/3500400
Channel 3 Multiplexer error flag	Boolean	Channel3/Multiplexer/errorflag/3600100
Channel 3 Multiplexer warning flag	Boolean	Channel3/Multiplexer/warningflag/3600200
Channel 3 Multiplexer error number	Long	Channel3/Multiplexer/errornumber/3600300
Channel 3 Multiplexer warning number	Long	Channel3/Multiplexer/warningnumber/3600400
Channel 3 Multiplexer Error Description	String	Channel1/Multiplexer/ErrorDescription/3600600
Channel 3 Multiplexer Warning Description	String	Channel1/Multiplexer/WarningDescription/3600700

Channel 4 Gas A Concentration	Float	Channel4/GasA/Concentration/4010100
Channel 4 Gas A Alarm HH occurred	Boolean	Channel4/GasA/AlarmHHOccurred/4010200
Channel 4 Gas A Alarm H occurred		Channel4/GasA/AlarmHOccurred/4010300
Channel 4 Gas A Alarm L occurred	Boolean Boolean	Channel4/GasA/AlarmLOccurred/4010400
Channel 4 Gas A Alarm LL occurred	Boolean	Channel4/GasA/AlarmLLOccurred/4010500
Channel 4 Filter A alignment error flag	Boolean	Channel4/FilterA/AlignmentErrorFlag/4010600
Channel 4 Gas B Concentration	Float	Channel4/GasB/Concentration/4020100
Channel 4 Gas B Alarm HH occurred	Boolean	Channel4/GasB/AlarmHHOccurred/4020200
Channel 4 Gas B Alarm H occurred	Boolean	Channel4/GasB/AlarmHOccurred/4020300
Channel 4 Gas B Alarm L occurred		Channel4/GasB/AlarmLOccurred/4020400
Channel 4 Gas B Alarm LL occurred	Boolean Boolean	Channel4/GasB/AlarmLLOccurred/4020500
Channel 4 Filter B alignment error flag	Boolean	Channel4/FilterB/AlignmentErrorFlag/4020600
Channel 4 Gas C Concentration	Float	Channel4/GasC/Concentration/4030100
Channel 4 Gas C Alarm HH occurred	Boolean	Channel4/GasC/AlarmHHOccurred/4030200
Channel 4 Gas C Alarm H occurred	Boolean	Channel4/GasC/AlarmHOccurred/4030300
Channel 4 Gas C Alarm L occurred	Boolean	Channel4/GasC/AlarmLOccurred/4030400
Channel 4 Gas C Alarm LL occurred	Boolean	Channel4/GasC/AlarmLLOccurred/4030500
Channel 4 Filter C alignment error flag	Boolean	Channel4/FilterC/AlignmentErrorFlag/4030600
Channel 4 Gas D Concentration	Float	Channel4/GasD/Concentration/4040100
Channel 4 Gas D Alarm HH occurred	Boolean	Channel4/GasD/AlarmHHOccurred/4040200
Channel 4 Gas D Alarm H occurred	Boolean	Channel4/GasD/AlarmHOccurred/4040300
Channel 4 Gas D Alarm L occurred	Boolean	Channel4/GasD/AlarmLOccurred/4040400
Channel 4 Gas D Alarm LL occurred	Boolean	Channel4/GasD/AlarmLLOccurred/4040500
Channel 4 Filter D alignment error flag	Boolean	Channel4/FilterD/AlignmentErrorFlag/4040600
Channel 4 Gas E Concentration	Float	Channel4/GasE/Concentration/4050100
Channel 4 Gas E Alarm HH occurred	Boolean	Channel4/GasE/AlarmHHOccurred/4050200
Channel 4 Gas E Alarm H occurred	Boolean	Channel4/GasE/AlarmHOccurred/4050300
Channel 4 Gas E Alarm L occurred	Boolean	Channel4/GasE/AlarmLOccurred/4050400
Channel 4 Gas E Alarm LL occurred	Boolean	Channel4/GasE/AlarmLLOccurred/4050500
Channel 4 Filter E alignment error flag	Boolean	Channel4/FilterE/AlignmentErrorFlag/4050600
Channel 4 Gas W Concentration	Float	Channel4/GasW/Concentration/4060100
Channel 4 Gas W Alarm HH occurred	Boolean	Channel4/GasW/AlarmHHOccurred/4060200
Channel 4 Gas W Alarm H occurred	Boolean	Channel4/GasW/AlarmHOccurred/4060300
Channel 4 Gas W Alarm L occurred	Boolean	Channel4/GasW/AlarmLOccurred/4060400
Channel 4 Gas W Alarm LL occurred	Boolean	Channel4/GasW/AlarmLLOccurred/4060500
Channel 4 Filter W alignment error flag	Boolean	Channel4/FilterW/AlignmentErrorFlag/4060600
Channel 4 Pressure	Float	Channel4/Pressure/4500100
Channel 4 Gas Monitor Air flag	Boolean	Channel4/GasMonitor/Airflag/4500200
Channel 4 Gas Monitor Error flag	Boolean	Channel4/GasMonitor/Errorflag/4500300
Channel 4 Gas Monitor Warning flag	Boolean	Channel4/GasMonitor/Warningflag/4500400
Channel 4 Monitor Display Error Message	String	Channel4/GasMonitor/MonitorDisplayErrorMessage/4500500
Channel 4 Monitor Display Warning Message	String	Channel4/GasMonitor/MonitorDisplayWarningMessage/4500600
Channel 4 Multiplexer error flag	Boolean	Channel4/Multiplexer/errorflag/4600100
Channel 4 Multiplexer warning flag	Boolean	Channel4/Multiplexer/warningflag/4600200
Channel 4 Multiplexer error number	Long	Channel4/Multiplexer/errornumber/4600300
Channel 4 Multiplexer warning number	Long	Channel4/Multiplexer/warningnumber/4600400
Channel 4 Multiplexer Warning number  Channel 4 Multiplexer Error Description		Channel4/Multiplexer/ErrorDescription/4600600
Channel 4 Multiplexer Error Description  Channel 4 Multiplexer Warning Description	String String	Channel4/Multiplexer/WarningDescription/4600700
Channel 5 Gas A Concentration	Float	Channel5/GasA/Concentration/5010100
		Channel5/GasA/AlarmHHOccurred/5010200
Channel 5 Gas A Alarm HH occurred Channel 5 Gas A Alarm H occurred	Boolean	Channel5/GasA/AlarmHOccurred/5010300
	Boolean	
Channel 5 Gas A Alarm L occurred	Boolean	Channel5/GasA/AlarmLOccurred/5010400

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Channel 5 Gas A Alarm LL occurred	Boolean	Channel5/GasA/AlarmLLOccurred/5010500
Channel 5 Filter A alignment error flag	Boolean	Channel5/FilterA/AlignmentErrorFlag/5010600
Channel 5 Gas B Concentration	Float	Channel5/GasB/Concentration/5020100
Channel 5 Gas B Alarm HH occurred	Boolean	Channel5/GasB/AlarmHHOccurred/5020200
Channel 5 Gas B Alarm H occurred	Boolean	Channel5/GasB/AlarmHOccurred/5020300
Channel 5 Gas B Alarm L occurred	Boolean	Channel5/GasB/AlarmLOccurred/5020400
Channel 5 Gas B Alarm LL occurred	Boolean	Channel5/GasB/AlarmLLOccurred/5020500
Channel 5 Filter B alignment error flag	Boolean	Channel5/FilterB/AlignmentErrorFlag/5020600
Channel 5 Gas C Concentration	Float	Channel5/GasC/Concentration/5030100
Channel 5 Gas C Alarm HH occurred	Boolean	Channel5/GasC/AlarmHHOccurred/5030200
Channel 5 Gas C Alarm H occurred	Boolean	Channel5/GasC/AlarmHOccurred/5030300
Channel 5 Gas C Alarm L occurred	Boolean	Channel5/GasC/AlarmLOccurred/5030400
Channel 5 Gas C Alarm LL occurred	Boolean	Channel5/GasC/AlarmLLOccurred/5030500
Channel 5 Filter C alignment error flag	Boolean	Channel5/FilterC/AlignmentErrorFlag/5030600
Channel 5 Gas D Concentration	Float	Channel5/GasD/Concentration/5040100
Channel 5 Gas D Alarm HH occurred	Boolean	Channel5/GasD/AlarmHHOccurred/5040200
Channel 5 Gas D Alarm H occurred	Boolean	Channel5/GasD/AlarmHOccurred/5040300
Channel 5 Gas D Alarm L occurred	Boolean	Channel5/GasD/AlarmLOccurred/5040400
Channel 5 Gas D Alarm LL occurred	Boolean	Channel5/GasD/AlarmLLOccurred/5040500
Channel 5 Filter D alignment error flag	Boolean	Channel5/FilterD/AlignmentErrorFlag/5040600
Channel 5 Gas E Concentration	Float	Channel5/GasE/Concentration/5050100
Channel 5 Gas E Alarm HH occurred	Boolean	Channel5/GasE/AlarmHHOccurred/5050200
Channel 5 Gas E Alarm H occurred	Boolean	Channel5/GasE/AlarmHOccurred/5050300
Channel 5 Gas E Alarm L occurred	Boolean	Channel5/GasE/AlarmLOccurred/5050400
Channel 5 Gas E Alarm LL occurred	Boolean	Channel5/GasE/AlarmLLOccurred/5050500
Channel 5 Filter E alignment error flag	Boolean	Channel5/FilterE/AlignmentErrorFlag/5050600
Channel 5 Gas W Concentration	Float	Channel5/GasW/Concentration/5060100
Channel 5 Gas W Alarm HH occurred	Boolean	Channel5/GasW/AlarmHHOccurred/5060200
Channel 5 Gas W Alarm H occurred	Boolean	Channel5/GasW/AlarmHOccurred/5060300
Channel 5 Gas W Alarm L occurred	Boolean	Channel5/GasW/AlarmLOccurred/5060400
Channel 5 Gas W Alarm LL occurred	Boolean	Channel5/GasW/AlarmLLOccurred/5060500
Channel 5 Filter W alignment error flag	Boolean	Channel5/FilterW/AlignmentErrorFlag/5060600
Channel 5 Pressure	Float	Channel5/Pressure/5500100
Channel 5 Gas Monitor Air flag	Boolean	Channel5/GasMonitor/Airflag/5500200
Channel 5 Gas Monitor Error flag	Boolean	Channel5/GasMonitor/Errorflag/5500300
Channel 5 Gas Monitor Warning flag	Boolean	Channel5/GasMonitor/Warningflag/5500400
Channel 5 Monitor Display Error Message	String	Channel1/GasMonitor/MonitorDisplayErrorMessage/5500500
Channel 5 Monitor Display Warning Message	String	Channel1/GasMonitor/MonitorDisplayWarningMessage/5500600
Channel 5 Multiplexer error flag	Boolean	Channel5/Multiplexer/errorflag/5600100
Channel 5 Multiplexer warning flag	Boolean	Channel5/Multiplexer/warningflag/5600200
Channel 5 Multiplexer error number	Long	Channel5/Multiplexer/errornumber/5600300
Channel 5 Multiplexer warning number	Long	Channel5/Multiplexer/warningnumber/5600400
Channel 5 Multiplexer Error Description	String	Channel1/Multiplexer/ErrorDescription/5600600
Channel 5 Multiplexer Warning Description	String	Channel1/Multiplexer/WarningDescription/5600700
Channel 6 Gas A Concentration	Float	Channel6/GasA/Concentration/6010100
Channel 6 Gas A Alarm HH occurred	Boolean	Channel6/GasA/AlarmHHOccurred/6010200
Channel 6 Gas A Alarm H occurred	Boolean	Channel6/GasA/AlarmHOccurred/6010300
Channel 6 Gas A Alarm L occurred	Boolean	Channel6/GasA/AlarmLOccurred/6010400
Channel 6 Gas A Alarm LL occurred	Boolean	Channel6/GasA/AlarmLLOccurred/6010500
Channel 6 Filter A alignment error flag	Boolean	Channel6/FilterA/AlignmentErrorFlag/6010600
Channel 6 Gas B Concentration		
	Float	Channel6/GasB/Concentration/6020100

Channel 6 Gas B Alarm H occurred	Boolean	Channel6/GasB/AlarmHOccurred/6020300
	Boolean	Channel6/GasB/AlarmLOccurred/6020400
	Boolean	Channel6/GasB/AlarmLLOccurred/6020500
	Boolean	Channel6/FilterB/AlignmentErrorFlag/6020600
	Float	Channel6/GasC/Concentration/6030100
	Boolean	Channel6/GasC/AlarmHHOccurred/6030200
	Boolean	Channel6/GasC/AlarmHOccurred/6030300
	Boolean	Channel6/GasC/AlarmLOccurred/6030400
	Boolean	Channel6/GasC/AlarmLLOccurred/6030500
	Boolean	Channel6/FilterC/AlignmentErrorFlag/6030600
	Float	Channel6/GasD/Concentration/6040100
	Boolean	Channel6/GasD/AlarmHHOccurred/6040200
	Boolean	Channel6/GasD/AlarmHOccurred/6040300
	Boolean	Channel6/GasD/AlarmLOccurred/6040400
	Boolean	Channel6/GasD/AlarmLLOccurred/6040500
	Boolean Boolean	Channel6/FilterD/AlignmentErrorFlag/6040600
	Float	Channel6/GasE/Concentration/6050100
		Channel6/GasE/AlarmHHOccurred/6050200
	Boolean	
	Boolean	Channel6/GasE/AlarmHOccurred/6050300
	Boolean	Channel6/GasE/AlarmLOccurred/6050400
	Boolean	Channel6/GasE/AlarmLLOccurred/6050500
<u> </u>	Boolean	Channel6/FilterE/AlignmentErrorFlag/6050600
	Float	Channel6/GasW/Concentration/6060100
	Boolean	Channel6/GasW/AlarmHHOccurred/6060200
	Boolean	Channel6/GasW/AlarmHOccurred/6060300
	Boolean	Channel6/GasW/AlarmLOccurred/6060400
	Boolean	Channel6/GasW/AlarmLLOccurred/6060500
	Boolean	Channel6/FilterW/AlignmentErrorFlag/6060600
	Float	Channel6/Pressure/6500100
	Boolean	Channel6/GasMonitor/Airflag/6500200
-	Boolean	Channel6/GasMonitor/Errorflag/6500300
	Boolean	Channel6/GasMonitor/Warningflag/6500400
	String	Channel6/GasMonitor/MonitorDisplayErrorMessage/6500500
Channel 6 Monitor Display Warning Message S	String	Channel6/GasMonitor/MonitorDisplayWarningMessage/6500600
	Boolean	Channel6/Multiplexer/errorflag/6600100
Channel 6 Multiplexer warning flag	Boolean	Channel6/Multiplexer/warningflag/6600200
Channel 6 Multiplexer error number L	Long	Channel6/Multiplexer/errornumber/6600300
Channel 6 Multiplexer warning number L	Long	Channel6/Multiplexer/warningnumber/65600400
Channel 6 Multiplexer Error Description S	String	Channel6/Multiplexer/ErrorDescription/6600600
Channel 6 Multiplexer Warning Description S	String	Channel6/Multiplexer/WarningDescription/6600700
Channel 7 Gas A Concentration F	Float	Channel7/GasA/Concentration/7010100
Channel 7 Gas A Alarm HH occurred	Boolean	Channel7/GasA/AlarmHHOccurred/7010200
Channel 7 Gas A Alarm H occurred	Boolean	Channel7/GasA/AlarmHOccurred/7010300
Channel 7 Gas A Alarm L occurred	Boolean	Channel7/GasA/AlarmLOccurred/7010400
Channel 7 Gas A Alarm LL occurred	Boolean	Channel7/GasA/AlarmLLOccurred/7010500
Channel 7 Filter A alignment error flag	Boolean	Channel7/FilterA/AlignmentErrorFlag/7010600
Channel 7 Gas B Concentration F	Float	Channel7/GasB/Concentration/7020100
	Boolean	Channel7/GasB/AlarmHHOccurred/7020200
	Boolean	Channel7/GasB/AlarmHOccurred/7020300
	Boolean	Channel7/GasB/AlarmLOccurred/7020400
	Boolean	Channel7/GasB/AlarmLLOccurred/7020500
Channel 7 Filter B alignment error flag	Boolean	Channel7/FilterB/AlignmentErrorFlag/7020600

Channel 7 Gas C Concentration	Float	Channel7/GasC/Concentration/7030100
Channel 7 Gas C Alarm HH occurred	Boolean	Channel7/GasC/AlarmHHOccurred/7030200
Channel 7 Gas C Alarm H occurred	Boolean	Channel7/GasC/AlarmHOccurred/7030300
Channel 7 Gas C Alarm L occurred	Boolean	Channel7/GasC/AlarmLOccurred/7030400
Channel 7 Gas C Alarm LL occurred	Boolean	Channel7/GasC/AlarmLLOccurred/7030500
Channel 7 Filter C alignment error flag	Boolean	Channel7/FilterC/AlignmentErrorFlag/7030600
Channel 7 Gas D Concentration	Float	Channel7/GasD/Concentration/7040100
Channel 7 Gas D Alarm HH occurred	Boolean	Channel7/GasD/AlarmHHOccurred/7040200
Channel 7 Gas D Alarm H occurred	Boolean	Channel7/GasD/AlarmHOccurred/7040300
Channel 7 Gas D Alarm L occurred	Boolean	Channel7/GasD/AlarmLOccurred/7040400
Channel 7 Gas D Alarm LL occurred	Boolean	Channel7/GasD/AlarmLLOccurred/7040500
Channel 7 Filter D alignment error flag	Boolean	Channel7/FilterD/AlignmentErrorFlag/7040600
Channel 7 Gas E Concentration	Float	Channel7/GasE/Concentration/7050100
Channel 7 Gas E Alarm HH occurred	Boolean	Channel7/GasE/AlarmHHOccurred/7050200
Channel 7 Gas E Alarm H occurred	Boolean	Channel7/GasE/AlarmHOccurred/7050300
Channel 7 Gas E Alarm L occurred	Boolean	Channel7/GasE/AlarmLOccurred/7050400
Channel 7 Gas E Alarm LL occurred	Boolean	Channel7/GasE/AlarmLLOccurred/7050500
Channel 7 Filter E alignment error flag	Boolean	Channel7/FilterE/AlignmentErrorFlag/7050600
Channel 7 Gas W Concentration	Float	Channel7/GasW/Concentration/7060100
Channel 7 Gas W Alarm HH occurred	Boolean	Channel7/GasW/AlarmHHOccurred/7060200
Channel 7 Gas W Alarm H occurred	Boolean	Channel7/GasW/AlarmHOccurred/7060300
Channel 7 Gas W Alarm L occurred	Boolean	Channel7/GasW/AlarmLOccurred/7060400
Channel 7 Gas W Alarm LL occurred	Boolean	Channel7/GasW/AlarmLLOccurred/7060500
Channel 7 Filter W alignment error flag	Boolean	Channel7/FilterW/AlignmentErrorFlag/7060600
Channel 7 Pressure	Float	Channel7/Pressure/7500100
Channel 7 Gas Monitor Air flag	Boolean	Channel7/GasMonitor/Airflag/7500200
Channel 7 Gas Monitor Error flag	Boolean	Channel7/GasMonitor/Errorflag/7500300
Channel 7 Gas Monitor Warning flag	Boolean	Channel7/GasMonitor/Warningflag/7500400
Channel 7 Monitor Display Error Message	String	Channel7/GasMonitor/MonitorDisplayErrorMessage/7500500
Channel 7 Monitor Display Warning Message	String	Channel7/GasMonitor/MonitorDisplayWarningMessage/7500600
Channel 7 Multiplexer error flag	Boolean	Channel7/Multiplexer/errorflag/7600100
Channel 7 Multiplexer warning flag	Boolean	Channel7/Multiplexer/warningflag/7600200
Channel 7 Multiplexer error number	Long	Channel7/Multiplexer/errornumber/7600300
Channel 7 Multiplexer warning number	Long	Channel7/Multiplexer/warningnumber/7600400
Channel 7 Multiplexer Error Description	String	Channel1/Multiplexer/ErrorDescription/7600600
Channel 7 Multiplexer Warning Description	String	Channel1/Multiplexer/WarningDescription/7600700
Channel 8 Gas A Concentration	Float	Channel8/GasA/Concentration/8010100
Channel 8 Gas A Alarm HH occurred	Boolean	Channel8/GasA/AlarmHHOccurred/8010200
Channel 8 Gas A Alarm H occurred	Boolean	Channel8/GasA/AlarmHOccurred/8010300
Channel 8 Gas A Alarm L occurred	Boolean	Channel8/GasA/AlarmLOccurred/8010400
Channel 8 Gas A Alarm LL occurred	Boolean	Channel8/GasA/AlarmLLOccurred/8010500
Channel 8 Filter A alignment error flag	Boolean	Channel8/FilterA/AlignmentErrorFlag/8010600
Channel 8 Gas B Concentration	Float	Channel8/GasB/Concentration/8020100
Channel 8 Gas B Alarm HH occurred	Boolean	Channel8/GasB/AlarmHHOccurred/8020200
Channel 8 Gas B Alarm H occurred	Boolean	Channel8/GasB/AlarmHOccurred/8020300
Channel 8 Gas B Alarm L occurred	Boolean	Channel8/GasB/AlarmLOccurred/8020400
Channel 8 Gas B Alarm LL occurred	Boolean	Channel8/GasB/AlarmLLOccurred/8020500
Channel 8 Filter B alignment error flag	Boolean	Channel8/FilterB/AlignmentErrorFlag/8020600
Channel 8 Gas C Concentration	Float	Channel8/GasC/Concentration/8030100
Channel 8 Gas C Alarm HH occurred	Boolean	Channel8/GasC/AlarmHHOccurred/8030200
Channel 8 Gas C Alarm H occurred	Boolean	Channel8/GasC/AlarmHOccurred/8030300
Channel 8 Gas C Alarm L occurred	Boolean	Channel8/GasC/AlarmLOccurred/8030400
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Channel 8 Gas C Alarm LL occurred	Boolean	Channel8/GasC/AlarmLLOccurred/8030500
Channel 8 Filter C alignment error flag	Boolean	Channel8/FilterC/AlignmentErrorFlag/8030600
Channel 8 Gas D Concentration	Float	Channel8/GasD/Concentration/8040100
Channel 8 Gas D Alarm HH occurred	Boolean	Channel8/GasD/AlarmHHOccurred/8040200
Channel 8 Gas D Alarm H occurred	Boolean	Channel8/GasD/AlarmHOccurred/8040300
Channel 8 Gas D Alarm L occurred	Boolean	Channel8/GasD/AlarmLOccurred/8040400
Channel 8 Gas D Alarm LL occurred	Boolean	Channel8/GasD/AlarmLLOccurred/8040500
Channel 8 Filter D alignment error flag	Boolean	Channel8/FilterD/AlignmentErrorFlag/8040600
Channel 8 Gas E Concentration	Float	Channel8/GasE/Concentration/8050100
Channel 8 Gas E Alarm HH occurred	Boolean	Channel8/GasE/AlarmHHOccurred/8050200
Channel 8 Gas E Alarm H occurred	Boolean	Channel8/GasE/AlarmHOccurred/8050300
Channel 8 Gas E Alarm L occurred	Boolean	Channel8/GasE/AlarmLOccurred/8050400
Channel 8 Gas E Alarm LL occurred	Boolean	Channel8/GasE/AlarmLLOccurred/8050500
Channel 8 Filter E alignment error flag	Boolean	Channel8/FilterE/AlignmentErrorFlag/8050600
Channel 8 Gas W Concentration	Float	Channel8/GasW/Concentration/8060100
Channel 8 Gas W Alarm HH occurred	Boolean	Channel8/GasW/AlarmHHOccurred/8060200
Channel 8 Gas W Alarm H occurred	Boolean	Channel8/GasW/AlarmHOccurred/8060300
Channel 8 Gas W Alarm L occurred	Boolean	Channel8/GasW/AlarmLOccurred/8060400
Channel 8 Gas W Alarm LL occurred	Boolean	Channel8/GasW/AlarmLLOccurred/8060500
Channel 8 Filter W alignment error flag	Boolean	Channel8/FilterW/AlignmentErrorFlag/8060600
Channel 8 Pressure	Float	Channel8/Pressure/8500100
Channel 8 Gas Monitor Air flag	Boolean	Channel8/GasMonitor/Airflag/8500200
Channel 8 Gas Monitor Error flag	Boolean	Channel8/GasMonitor/Errorflag/8500300
Channel 8 Gas Monitor Warning flag	Boolean	Channel8/GasMonitor/Warningflag/8500400
Channel 8 Monitor Display Error Message	String	Channel8/GasMonitor/MonitorDisplayErrorMessage/8500500
Channel 8 Monitor Display Warning Message	String	Channel8/GasMonitor/MonitorDisplayWarningMessage/8500600
Channel 8 Multiplexer error flag	Boolean	Channel8/Multiplexer/errorflag/8600100
Channel 8 Multiplexer warning flag	Boolean	Channel8/Multiplexer/warningflag/8600200
Channel 8 Multiplexer error number	Long	Channel8/Multiplexer/errornumber/8600300
Channel 8 Multiplexer warning number	Long	Channel8/Multiplexer/warningnumber/8600400
Channel 8 Multiplexer Error Description	String	Channel8/Multiplexer/ErrorDescription/8600600
Channel 8 Multiplexer Warning Description	String	Channel8/Multiplexer/WarningDescription/8600700
Channel 9 Gas A Concentration	Float	Channel9/GasA/Concentration/9010100
Channel 9 Gas A Alarm HH occurred	Boolean	Channel9/GasA/AlarmHHOccurred/9010200
Channel 9 Gas A Alarm H occurred	Boolean	Channel9/GasA/AlarmHOccurred/9010300
Channel 9 Gas A Alarm L occurred	Boolean	Channel9/GasA/AlarmLOccurred/9010400
Channel 9 Gas A Alarm LL occurred	Boolean	Channel9/GasA/AlarmLLOccurred/9010500
Channel 9 Filter A alignment error flag	Boolean	Channel9/FilterA/AlignmentErrorFlag/9010600
Channel 9 Gas B Concentration	Float	Channel9/GasB/Concentration/9020100
Channel 9 Gas B Alarm HH occurred	Boolean	Channel9/GasB/AlarmHHOccurred/9020200
Channel 9 Gas B Alarm H occurred	Boolean	Channel9/GasB/AlarmHOccurred/9020300
Channel 9 Gas B Alarm L occurred	Boolean	Channel9/GasB/AlarmLOccurred/9020400
Channel 9 Gas B Alarm LL occurred	Boolean	Channel9/GasB/AlarmLLOccurred/9020500
Channel 9 Filter B alignment error flag	Boolean	Channel9/FilterB/AlignmentErrorFlag/9020600
Channel 9 Gas C Concentration	Float	Channel9/GasC/Concentration/9030100
Channel 9 Gas C Alarm HH occurred	Boolean	Channel9/GasC/AlarmHHOccurred/9030200
Channel 9 Gas C Alarm H occurred	Boolean	Channel9/GasC/AlarmHOccurred/9030300
Channel 9 Gas C Alarm L occurred	Boolean	Channel9/GasC/AlarmLOccurred/9030400
Channel 9 Gas C Alarm LL occurred	Boolean	Channel9/GasC/AlarmLLOccurred/9030500
Channel 9 Filter C alignment error flag	Boolean	Channel9/FilterC/AlignmentErrorFlag/9030600
Channel 9 Gas D Concentration	Float	Channel9/GasD/Concentration/9040100
Channel 9 Gas D Alarm HH occurred	Boolean	Channel9/GasD/AlarmHHOccurred/9040200
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Channel 9 Gas D Alarm H occurred	Boolean	Channel9/GasD/AlarmHOccurred/9040300
Channel 9 Gas D Alarm L occurred	Boolean	Channel9/GasD/AlarmLOccurred/9040400
Channel 9 Gas D Alarm LL occurred	Boolean	Channel9/GasD/AlarmLLOccurred/9040500
Channel 9 Filter D alignment error flag	Boolean	Channel9/FilterD/AlignmentErrorFlag/9040600
Channel 9 Gas E Concentration	Float	Channel9/GasE/Concentration/9050100
Channel 9 Gas E Alarm HH occurred	Boolean	Channel9/GasE/AlarmHHOccurred/9050200
Channel 9 Gas E Alarm H occurred	Boolean	Channel9/GasE/AlarmHOccurred/9050300
Channel 9 Gas E Alarm L occurred	Boolean	Channel9/GasE/AlarmLOccurred/9050400
Channel 9 Gas E Alarm LL occurred	Boolean	Channel9/GasE/AlarmLLOccurred/9050500
Channel 9 Filter E alignment error flag	Boolean	Channel9/FilterE/AlignmentErrorFlag/9050600
Channel 9 Gas W Concentration	Float	Channel9/GasW/Concentration/9060100
Channel 9 Gas W Alarm HH occurred	Boolean	Channel9/GasW/AlarmHHOccurred/9060200
Channel 9 Gas W Alarm H occurred	Boolean	Channel9/GasW/AlarmHOccurred/9060300
Channel 9 Gas W Alarm L occurred	Boolean	Channel9/GasW/AlarmLOccurred/9060400
Channel 9 Gas W Alarm LL occurred	Boolean	Channel9/GasW/AlarmLLOccurred/9060500
Channel 9 Filter W alignment error flag	Boolean	Channel9/FilterW/AlignmentErrorFlag/9060600
Channel 9 Pressure	Float	Channel9/Pressure/9500100
Channel 9 Gas Monitor Air flag	Boolean	Channel9/GasMonitor/Airflag/9500200
Channel 9 Gas Monitor Error flag	Boolean	Channel9/GasMonitor/Errorflag/9500300
Channel 9 Gas Monitor Warning flag	Boolean	Channel9/GasMonitor/Warningflag/9500400
Channel 9 Monitor Display Error Message	String	Channel9/GasMonitor/MonitorDisplayErrorMessage/9500500
Channel 9 Monitor Display Warning Message	String	Channel9/GasMonitor/MonitorDisplayWarningMessage/9500600
Channel 9 Multiplexer error flag	Boolean	Channel9/Multiplexer/errorflag/9600100
Channel 9 Multiplexer warning flag	Boolean	Channel9/Multiplexer/warningflag/9600200
Channel 9 Multiplexer error number	Long	Channel9/Multiplexer/errornumber/9600300
Channel 9 Multiplexer warning number	Long	Channel9/Multiplexer/warning number/9600400
Channel 9 Multiplexer Error Description	String	Channel9/Multiplexer/ErrorDescription/9600600
Channel 9 Multiplexer Warning Description	String	Channel9/Multiplexer/WarningDescription/9600700
Channel 10 Gas A Concentration	Float	Channel10/GasA/Concentration/10010100
Channel 10 Gas A Alarm HH occurred	Boolean	Channel10/GasA/AlarmHHOccurred/10010200
Channel 10 Gas A Alarm H occurred	Boolean	Channel10/GasA/AlarmHOccurred/10010300
Channel 10 Gas A Alarm L occurred	Boolean	Channel10/GasA/AlarmLOccurred/10010400
Channel 10 Gas A Alarm LL occurred	Boolean	Channel10/GasA/AlarmLLOccurred/10010500
Channel 10 Filter A alignment error flag	Boolean	Channel10/FilterA/AlignmentErrorFlag/10010600
Channel 10 Gas B Concentration	Float	Channel10/GasB/Concentration/10020100
Channel 10 Gas B Alarm HH occurred	Boolean	Channel10/GasB/AlarmHHOccurred/10020200
Channel 10 Gas B Alarm H occurred	Boolean	Channel10/GasB/AlarmHOccurred/10020300
Channel 10 Gas B Alarm L occurred	Boolean	Channel10/GasB/AlarmLOccurred/10020400
Channel 10 Gas B Alarm LL occurred	Boolean	Channel10/GasB/AlarmLLOccurred/10020500
Channel 10 Filter B alignment error flag	Boolean	Channel10/FilterB/AlignmentErrorFlag/10020600
Channel 10 Gas C Concentration	Float	Channel10/GasC/Concentration/10030100
Channel 10 Gas C Alarm HH occurred	Boolean	Channel10/GasC/AlarmHHOccurred/10030200
Channel 10 Gas C Alarm H occurred	Boolean	Channel10/GasC/AlarmHOccurred/10030300
Channel 10 Gas C Alarm L occurred	Boolean	Channel10/GasC/AlarmLOccurred/10030400
Channel 10 Gas C Alarm LL occurred	Boolean	Channel10/GasC/AlarmLLOccurred/10030500
Channel 10 Filter C alignment error flag	Boolean	Channel10/FilterC/AlignmentErrorFlag/10030600
Channel 10 Gas D Concentration	Float	Channel10/GasD/Concentration/10040100
Channel 10 Gas D Alarm HH occurred	Boolean	Channel10/GasD/AlarmHHOccurred/10040200
Channel 10 Gas D Alarm H occurred	Boolean	Channel10/GasD/AlarmHOccurred/10040300
Channel 10 Gas D Alarm L occurred	Boolean	Channel10/GasD/AlarmLOccurred/10040400
Channel 10 Gas D Alarm LL occurred	Boolean	Channel10/GasD/AlarmLLOccurred/10040500
Channel 10 Filter D alignment error flag	Boolean	Channel10/FilterD/AlignmentErrorFlag/10040600
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Channel 40 Can F Consentration	Floor	Charmal40/Car F/Caracastration/40050400
Channel 10 Gas E Concentration	Float	Channel10/GasE/Concentration/10050100
Channel 10 Gas E Alarm HH occurred	Boolean	Channel10/GasE/AlarmHHOccurred/10050200
Channel 10 Gas E Alarm H occurred	Boolean	Channel10/GasE/AlarmHOccurred/10050300
Channel 10 Gas E Alarm L occurred	Boolean	Channel10/GasE/AlarmLOccurred/10050400
Channel 10 Gas E Alarm LL occurred	Boolean	Channel10/GasE/AlarmLLOccurred/10050500
Channel 10 Filter E alignment error flag	Boolean	Channel10/FilterE/AlignmentErrorFlag/10050600
Channel 10 Gas W Concentration	Float	Channel10/GasW/Concentration/10060100
Channel 10 Gas W Alarm HH occurred	Boolean	Channel10/GasW/AlarmHHOccurred/10060200
Channel 10 Gas W Alarm H occurred	Boolean	Channel10/GasW/AlarmHOccurred/10060300
Channel 10 Gas W Alarm L occurred	Boolean	Channel10/GasW/AlarmLOccurred/10060400
Channel 10 Gas W Alarm LL occurred	Boolean	Channel10/GasW/AlarmLLOccurred/10060500
Channel 10 Filter W alignment error flag	Boolean	Channel10/FilterW/AlignmentErrorFlag/10060600
Channel 10 Pressure	Float	Channel10/Pressure/10500100
Channel 10 Gas Monitor Air flag	Boolean	Channel10/GasMonitor/Airflag/10500200
Channel 10 Gas Monitor Error flag	Boolean	Channel10/GasMonitor/Errorflag/10500300
Channel 10 Gas Monitor Warning flag	Boolean	Channel10/GasMonitor/Warningflag/10500400
Channel 10 Monitor Display Error Message	String	Channel10/GasMonitor/MonitorDisplayErrorMessage/10500500
Channel 10 Monitor Display Warning Message	String	Channel10/GasMonitor/MonitorDisplayWarningMessage/10500600
Channel 10 Multiplexer error flag	Boolean	Channel10/Multiplexer/errorflag/10600100
Channel 10 Multiplexer warning flag	Boolean	Channel10/Multiplexer/warningflag/10600200
Channel 10 Multiplexer error number	Long	Channel10/Multiplexer/errornumber/10600300
Channel 10 Multiplexer warning number	Long	Channel10/Multiplexer/warningnumber/10600400
Channel 10 Multiplexer Error Description	String	Channel10/Multiplexer/ErrorDescription/10600600
Channel 10 Multiplexer Warning Description	String	Channel10/Multiplexer/WarningDescription/10600700
Channel 11 Gas A Concentration	Float	Channel11/GasA/Concentration/11010100
Channel 11 Gas A Alarm HH occurred	Boolean	Channel11/GasA/AlarmHHOccurred/11010200
Channel 11 Gas A Alarm H occurred	Boolean	Channel11/GasA/AlarmHOccurred/11010300
Channel 11 Gas A Alarm L occurred	Boolean	Channel11/GasA/AlarmLOccurred/11010400
Channel 11 Gas A Alarm LL occurred	Boolean	Channel11/GasA/AlarmLLOccurred/11010500
Channel 11 Filter A alignment error flag	Boolean	Channel11/FilterA/AlignmentErrorFlag/11010600
Channel 11 Gas B Concentration	Float	Channel11/GasB/Concentration/11020100
Channel 11 Gas B Alarm HH occurred	Boolean	Channel11/GasB/AlarmHHOccurred/11020200
Channel 11 Gas B Alarm H occurred	Boolean	Channel11/GasB/AlarmHOccurred/11020300
Channel 11 Gas B Alarm L occurred	Boolean	Channel11/GasB/AlarmLOccurred/11020400
Channel 11 Gas B Alarm LL occurred	Boolean	Channel11/GasB/AlarmLLOccurred/11020500
		Channel11/FilterB/AlignmentErrorFlag/11020600
Channel 11 Filter B alignment error flag Channel 11 Gas C Concentration	Boolean Float	
		Channel11/GasC/AlarmHHOgaurrad/11030100
Channel 11 Gas C Alarm HH occurred	Boolean	Channel11/GasC/AlarmHHOccurred/11030200
Channel 11 Gas C Alarm H occurred	Boolean	Channel11/GasC/AlarmHOccurred/11030300
Channel 11 Gas C Alarm L occurred	Boolean	Channel11/GasC/AlarmLOccurred/11030400
Channel 11 Gas C Alarm LL occurred	Boolean	Channel11/GasC/AlarmLLOccurred/11030500
Channel 11 Filter C alignment error flag	Boolean	Channel11/FilterC/AlignmentErrorFlag/11030600
Channel 11 Gas D Concentration	Float	Channel11/GasD/Concentration/11040100
Channel 11 Gas D Alarm HH occurred	Boolean	Channel11/GasD/AlarmHHOccurred/11040200
Channel 11 Gas D Alarm H occurred	Boolean	Channel11/GasD/AlarmHOccurred/11040300
Channel 11 Gas D Alarm L occurred	Boolean	Channel11/GasD/AlarmLOccurred/11040400
Channel 11 Gas D Alarm LL occurred	Boolean	Channel11/GasD/AlarmLLOccurred/11040500
Channel 11 Filter D alignment error flag	Boolean	Channel11/FilterD/AlignmentErrorFlag/11040600
Channel 11 Gas E Concentration	Float	Channel11/GasE/Concentration/11050100
Channel 11 Gas E Alarm HH occurred	Boolean	Channel11/GasE/AlarmHHOccurred/11050200
Channel 11 Gas E Alarm H occurred	Boolean	Channel11/GasE/AlarmHOccurred/11050300
Channel 11 Gas E Alarm L occurred	Boolean	Channel11/GasE/AlarmLOccurred/11050400

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Channel 11 Gas E Alarm LL occurred	Boolean	Channel11/GasE/AlarmLLOccurred/11050500
Channel 11 Filter E alignment error flag	Boolean	Channel11/FilterE/AlignmentErrorFlag/11050600
Channel 11 Gas W Concentration	Float	Channel11/GasW/Concentration/11060100
Channel 11 Gas W Alarm HH occurred	Boolean	Channel11/GasW/AlarmHHOccurred/11060200
Channel 11 Gas W Alarm H occurred	Boolean	Channel11/GasW/AlarmHOccurred/11060300
Channel 11 Gas W Alarm L occurred	Boolean	Channel11/GasW/AlarmLOccurred/11060400
Channel 11 Gas W Alarm LL occurred	Boolean	Channel11/GasW/AlarmLLOccurred/11060500
Channel 11 Filter W alignment error flag	Boolean	Channel11/FilterW/AlignmentErrorFlag/11060600
Channel 11 Pressure	Float	Channel11/Pressure/11500100
Channel 11 Gas Monitor Air flag	Boolean	Channel11/GasMonitor/Airflag/11500200
Channel 11 Gas Monitor Error flag	Boolean	Channel11/GasMonitor/Errorflag/11500300
Channel 11 Gas Monitor Warning flag	Boolean	Channel11/GasMonitor/Warningflag/11500400
Channel 11 Monitor Display Error Message	String	Channel11/GasMonitor/MonitorDisplayErrorMessage/11500500
Channel 11 Monitor Display Warning Message	String	Channel11/GasMonitor/MonitorDisplayWarningMessage/11500600
Channel 11 Multiplexer error flag	Boolean	Channel11/Multiplexer/errorflag/11600100
Channel 11 Multiplexer warning flag	Boolean	Channel11/Multiplexer/warningflag/11600200
Channel 11 Multiplexer error number	Long	Channel11/Multiplexer/errornumber/11600300
Channel 11 Multiplexer warning number	Long	Channel11/Multiplexer/warningnumber/11600400
Channel 11 Multiplexer Error Description	String	Channel11/Multiplexer/ErrorDescription/11600600
Channel 11 Multiplexer Warning Description	String	Channel11/Multiplexer/WarningDescription/11600700
Channel 12 Gas A Concentration	Float	Channel12/GasA/Concentration/12010100
Channel 12 Gas A Alarm HH occurred	Boolean	Channel12/GasA/AlarmHHOccurred/12010200
Channel 12 Gas A Alarm H occurred	Boolean	Channel12/GasA/AlarmHOccurred/12010300
Channel 12 Gas A Alarm L occurred	Boolean	Channel12/GasA/AlarmLOccurred/12010400
Channel 12 Gas A Alarm LL occurred	Boolean	Channel12/GasA/AlarmLLOccurred/12010500
Channel 12 Filter A alignment error flag	Boolean	Channel12/FilterA/AlignmentErrorFlag/12010600
Channel 12 Gas B Concentration	Float	Channel12/GasB/Concentration/12020100
Channel 12 Gas B Alarm HH occurred	Boolean	Channel12/GasB/AlarmHHOccurred/12020200
Channel 12 Gas B Alarm H occurred	Boolean	Channel12/GasB/AlarmHOccurred/12020300
Channel 12 Gas B Alarm L occurred	Boolean	Channel12/GasB/AlarmLOccurred/12020400
Channel 12 Gas B Alarm LL occurred	Boolean	Channel12/GasB/AlarmLLOccurred/12020500
Channel 12 Filter B alignment error flag	Boolean	Channel12/FilterB/AlignmentErrorFlag/12020600
Channel 12 Gas C Concentration	Float	Channel12/GasC/Concentration/12030100
Channel 12 Gas C Alarm HH occurred	Boolean	Channel12/GasC/AlarmHHOccurred/12030200
Channel 12 Gas C Alarm H occurred	Boolean	Channel12/GasC/AlarmHOccurred/12030300
Channel 12 Gas C Alarm L occurred	Boolean	Channel12/GasC/AlarmLOccurred/12030400
Channel 12 Gas C Alarm LL occurred	Boolean	Channel12/GasC/AlarmLLOccurred/12030500
Channel 12 Filter C alignment error flag	Boolean	Channel12/FilterC/AlignmentErrorFlag/12030600
Channel 12 Gas D Concentration	Float	Channel12/GasD/Concentration/12040100
Channel 12 Gas D Alarm HH occurred	Boolean	Channel12/GasD/AlarmHHOccurred/12040200
Channel 12 Gas D Alarm H occurred	Boolean	Channel12/GasD/AlarmHOccurred/12040300
Channel 12 Gas D Alarm L occurred	Boolean	Channel12/GasD/AlarmLOccurred/12040400
Channel 12 Gas D Alarm LL occurred	Boolean	Channel12/GasD/AlarmLLOccurred/12040500
Channel 12 Filter D alignment error flag	Boolean	Channel12/FilterD/AlignmentErrorFlag/12040600
Channel 12 Gas E Concentration	Float	Channel12/GasE/Concentration/12050100
Channel 12 Gas E Alarm HH occurred	Boolean	Channel12/GasE/AlarmHHOccurred/12050200
Channel 12 Gas E Alarm H occurred	Boolean	Channel12/GasE/AlarmHOccurred/12050300
Channel 12 Gas E Alarm L occurred	Boolean	Channel12/GasE/AlarmLOccurred/12050400
Channel 12 Gas E Alarm LL occurred	Boolean	Channel12/GasE/AlarmLLOccurred/12050500
Channel 12 Filter E alignment error flag	Boolean	Channel12/FilterE/AlignmentErrorFlag/12050600
Channel 12 Gas W Concentration	Float	Channel12/GasW/Concentration/12060100

Channel 42 Cas W Alarra II assumed	Boolean	Characeld 2/Cas/M/Alarred I/Cas/mared 4/42000200
Channel 12 Gas W Alarm H occurred Channel 12 Gas W Alarm L occurred	Boolean	Channel12/GasW/AlarmHOccurred/12060300 Channel12/GasW/AlarmLOccurred/12060400
Channel 12 Gas W Alarm LL occurred	Boolean	
Channel 12 Gas W Alarm LL occurred  Channel 12 Filter W alignment error flag	Boolean	Channel12/GasW/AlarmLLOccurred/12060500 Channel12/FilterW/AlignmentErrorFlag/12060600
	Float	
Channel 12 Pressure Channel 12 Gas Monitor Air flag	Boolean	Channel12/Pressure/12500100 Channel12/GasMonitor/Airflag/12500200
	Boolean	
Channel 12 Gas Monitor Error flag		Channel12/GasMonitor/Errorflag/12500300
Channel 12 Gas Monitor Warning flag	Boolean	Channel12/GasMonitor/Warningflag/12500400
Channel 12 Monitor Display Error Message	String	Channel12/GasMonitor/MonitorDisplayErrorMessage/12500500
Channel 12 Monitor Display Warning Message	String Boolean	Channel12/GasMonitor/MonitorDisplayWarningMessage/12500600
Channel 12 Multiplever warning flog	Boolean	Channel12/Multiplexer/errorflag/12600100 Channel12/Multiplexer/warningflag/12600200
Channel 12 Multiplever error number		
Channel 12 Multiplexer error number Channel 12 Multiplexer warning number	Long	Channel12/Multiplexer/errornumber/12600300 Channel12/Multiplexer/warningnumber/12600400
	Long	·
Channel 12 Multiplexer Error Description	String	Channel12/Multiplexer/ErrorDescription/12600600
Channel 12 Multiplexer Warning Description Channel 13 Gas A Concentration	String Float	Channel12/Multiplexer/WarningDescription/12600700
		Channel13/GasA/AlarmHHOccurrod/13010100
Channel 13 Gas A Alarm HH occurred Channel 13 Gas A Alarm H occurred	Boolean Boolean	Channel13/GasA/AlarmHHOccurred/13010200 Channel13/GasA/AlarmHOccurred/13010300
Channel 13 Gas A Alarm L occurred	Boolean	Channel13/GasA/AlarmLOccurred/13010400
Channel 13 Gas A Alarm LL occurred	Boolean	Channel13/GasA/AlarmLLOccurred/13010500
Channel 13 Filter A alignment error flag	Boolean	Channel13/FilterA/AlignmentErrorFlag/13010600
Channel 13 Gas B Concentration	Float	Channel13/GasB/Concentration/13020100
Channel 13 Gas B Alarm HH occurred	Boolean	Channel13/GasB/AlarmHHOccurred/13020200
Channel 13 Gas B Alarm H occurred	Boolean	Channel13/GasB/AlarmHOccurred/13020300
Channel 13 Gas B Alarm L occurred	Boolean	Channel13/GasB/AlarmLOccurred/13020400
Channel 13 Gas B Alarm LL occurred	Boolean	Channel13/GasB/AlarmLLOccurred/13020500
Channel 13 Filter B alignment error flag	Boolean	Channel13/FilterB/AlignmentErrorFlag/13020600
Channel 13 Gas C Concentration	Float	Channel13/GasC/Concentration/13030100
Channel 13 Gas C Alarm HH occurred	Boolean	Channel13/GasC/AlarmHHOccurred/13030200
Channel 13 Gas C Alarm H occurred	Boolean	Channel13/GasC/AlarmHOccurred/13030300
Channel 13 Gas C Alarm L occurred	Boolean	Channel13/GasC/AlarmLOccurred/13030400
Channel 13 Gas C Alarm LL occurred	Boolean	Channel13/GasC/AlarmLLOccurred/13030500
Channel 13 Filter C alignment error flag	Boolean	Channel13/FilterC/AlignmentErrorFlag/13030600
Channel 13 Gas D Concentration	Float	Channel13/GasD/Concentration/13040100
Channel 13 Gas D Alarm HH occurred	Boolean	Channel13/GasD/AlarmHHOccurred/13040200
Channel 13 Gas D Alarm H occurred	Boolean	Channel13/GasD/AlarmHOccurred/13040300
Channel 13 Gas D Alarm L occurred	Boolean	Channel13/GasD/AlarmLOccurred/13040400
Channel 13 Gas D Alarm LL occurred	Boolean	Channel13/GasD/AlarmLLOccurred/13040500
Channel 13 Filter D alignment error flag	Boolean	Channel13/FilterD/AlignmentErrorFlag/13040600
Channel 13 Gas E Concentration	Float	Channel13/GasE/Concentration/13050100
Channel 13 Gas E Alarm HH occurred	Boolean	Channel13/GasE/AlarmHHOccurred/13050200
Channel 13 Gas E Alarm H occurred	Boolean	Channel13/GasE/AlarmHOccurred/13050300
Channel 13 Gas E Alarm L occurred	Boolean	Channel13/GasE/AlarmLOccurred/13050400
Channel 13 Gas E Alarm LL occurred	Boolean	Channel13/GasE/AlarmLLOccurred/13050500
Channel 13 Filter E alignment error flag	Boolean	Channel13/FilterE/AlignmentErrorFlag/13050600
Channel 13 Gas W Concentration	Float	Channel13/GasW/Concentration/13060100
Channel 13 Gas W Alarm HH occurred	Boolean	Channel13/GasW/AlarmHHOccurred/13060200
Channel 13 Gas W Alarm H occurred	Boolean	Channel13/GasW/AlarmHOccurred/13060300
Channel 13 Gas W Alarm L occurred	Boolean	Channel13/GasW/AlarmLOccurred/13060400
Channel 13 Gas W Alarm LL occurred	Boolean	Channel13/GasW/AlarmLLOccurred/13060500
Channel 13 Filter W alignment error flag	Boolean	Channel13/FilterW/AlignmentErrorFlag/13060600

Channel 12 Procesure	Float	Channel13/Pressure/13500100
Channel 13 Con Manitor Air flor	Boolean	
Channel 13 Gas Monitor Air flag		Channel13/GasMonitor/Airflag/13500200
Channel 13 Gas Monitor Error flag	Boolean	Channel13/GasMonitor/Errorflag/13500300
Channel 13 Gas Monitor Warning flag	Boolean	Channel13/GasMonitor/Warningflag/13500400
Channel 13 Monitor Display Error Message	String	Channel13/GasMonitor/MonitorDisplayErrorMessage/13500500
Channel 13 Monitor Display Warning Message	String	Channel13/GasMonitor/MonitorDisplayWarningMessage/13500600
Channel 13 Multiplexer error flag	Boolean	Channel13/Multiplexer/errorflag/13600100
Channel 13 Multiplexer warning flag	Boolean	Channel13/Multiplexer/warningflag/13600200
Channel 13 Multiplexer error number	Long	Channel13/Multiplexer/errornumber/13600300
Channel 13 Multiplexer warning number	Long	Channel13/Multiplexer/warningnumber/13600400
Channel 13 Multiplexer Error Description	String	Channel13/Multiplexer/ErrorDescription/13600600
Channel 13 Multiplexer Warning Description	String	Channel13/Multiplexer/WarningDescription/13600700
Channel 14 Gas A Concentration	Float	Channel14/GasA/Concentration/14010100
Channel 14 Gas A Alarm HH occurred	Boolean	Channel14/GasA/AlarmHHOccurred/14010200
Channel 14 Gas A Alarm H occurred	Boolean	Channel14/GasA/AlarmHOccurred/14010300
Channel 14 Gas A Alarm L occurred	Boolean	Channel14/GasA/AlarmLOccurred/14010400
Channel 14 Gas A Alarm LL occurred	Boolean	Channel14/GasA/AlarmLLOccurred/14010500
Channel 14 Filter A alignment error flag	Boolean	Channel14/FilterA/AlignmentErrorFlag/14010600
Channel 14 Gas B Concentration	Float	Channel14/GasB/Concentration/14020100
Channel 14 Gas B Alarm HH occurred	Boolean	Channel14/GasB/AlarmHHOccurred/14020200
Channel 14 Gas B Alarm H occurred	Boolean	Channel14/GasB/AlarmHOccurred/14020300
Channel 14 Gas B Alarm L occurred	Boolean	Channel14/GasB/AlarmLOccurred/14020400
Channel 14 Gas B Alarm LL occurred	Boolean	Channel14/GasB/AlarmLLOccurred/14020500
Channel 14 Filter B alignment error flag	Boolean	Channel14/FilterB/AlignmentErrorFlag/14020600
Channel 14 Gas C Concentration	Float	Channel14/GasC/Concentration/14030100
Channel 14 Gas C Alarm HH occurred	Boolean	Channel14/GasC/AlarmHHOccurred/14030200
Channel 14 Gas C Alarm H occurred	Boolean	Channel14/GasC/AlarmHOccurred/14030300
Channel 14 Gas C Alarm L occurred	Boolean	Channel14/GasC/AlarmLOccurred/14030400
Channel 14 Gas C Alarm LL occurred	Boolean	Channel14/GasC/AlarmLLOccurred/14030500
Channel 14 Filter C alignment error flag	Boolean	Channel14/FilterC/AlignmentErrorFlag/14030600
Channel 14 Gas D Concentration	Float	Channel14/GasD/Concentration/14040100
Channel 14 Gas D Alarm HH occurred	Boolean	Channel14/GasD/AlarmHHOccurred/14040200
Channel 14 Gas D Alarm H occurred	Boolean	Channel14/GasD/AlarmHOccurred/14040300
Channel 14 Gas D Alarm L occurred	Boolean	Channel14/GasD/AlarmLOccurred/14040400
Channel 14 Gas D Alarm LL occurred	Boolean	Channel14/GasD/AlarmLLOccurred/14040500
Channel 14 Filter D alignment error flag	Boolean	Channel14/FilterD/AlignmentErrorFlag/14040600
Channel 14 Gas E Concentration	Float	Channel14/GasE/Concentration/14050100
Channel 14 Gas E Alarm HH occurred	Boolean	Channel14/GasE/AlarmHHOccurred/14050200
Channel 14 Gas E Alarm H occurred	Boolean	Channel14/GasE/AlarmHOccurred/14050300
Channel 14 Gas E Alarm L occurred	Boolean	Channel14/GasE/AlarmLOccurred/14050400
Channel 14 Gas E Alarm LL occurred	Boolean	Channel14/GasE/AlarmLLOccurred/14050500
Channel 14 Filter E alignment error flag	Boolean	Channel14/FilterE/AlignmentErrorFlag/14050600
Channel 14 Gas W Concentration	Float	Channel14/GasW/Concentration/14060100
Channel 14 Gas W Alarm HH occurred	Boolean	Channel14/GasW/AlarmHHOccurred/14060200
Channel 14 Gas W Alarm H occurred	Boolean	Channel14/GasW/AlarmHOccurred/14060300
Channel 14 Gas W Alarm L occurred	Boolean	Channel14/GasW/AlarmLOccurred/14060400
Channel 14 Gas W Alarm LL occurred	Boolean	Channel14/GasW/AlarmLLOccurred/14060500
Channel 14 Filter W alignment error flag	Boolean	Channel14/FilterW/AlignmentErrorFlag/14060600
Channel 14 Pressure	Float	Channel14/Pressure/14500100
Channel 14 Gas Monitor Air flag	Boolean	Channel14/GasMonitor/Airflag/14500200
Channel 14 Gas Monitor Error flag	Boolean	Channel14/GasMonitor/Errorflag/14500300
Channel 14 Gas Monitor Warning flag	Boolean	Channel14/GasMonitor/Warningflag/14500400
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Channel 14 Monitor Display Error Message	String	Channel14/GasMonitor/MonitorDisplayErrorMessage/14500500
Channel 14 Monitor Display Warning Message	String	Channel14/GasMonitor/MonitorDisplayWarningMessage/14500600
Channel 14 Multiplexer error flag	Boolean	Channel14/Multiplexer/errorflag/14600100
Channel 14 Multiplexer warning flag	Boolean	Channel14/Multiplexer/warningflag/14600200
Channel 14 Multiplexer error number	Long	Channel14/Multiplexer/errornumber/14600300
Channel 14 Multiplexer warning number	Long	Channel14/Multiplexer/warningnumber/14600400
Channel 14 Multiplexer Error Description	String	Channel14/Multiplexer/ErrorDescription/14600600
Channel 14 Multiplexer Warning Description	String	Channel14/Multiplexer/WarningDescription/14600700
Channel 15 Gas A Concentration	Float	Channel15/GasA/Concentration/15010100
Channel 15 Gas A Alarm HH occurred	Boolean	Channel15/GasA/AlarmHHOccurred/15010200
Channel 15 Gas A Alarm H occurred	Boolean	Channel15/GasA/AlarmHOccurred/15010300
Channel 15 Gas A Alarm L occurred	Boolean	Channel15/GasA/AlarmLOccurred/15010400
Channel 15 Gas A Alarm LL occurred	Boolean	Channel15/GasA/AlarmLLOccurred/15010500
Channel 15 Filter A alignment error flag	Boolean	Channel15/FilterA/AlignmentErrorFlag/15010600
Channel 15 Gas B Concentration	Float	Channel15/GasB/Concentration/15020100
Channel 15 Gas B Alarm HH occurred	Boolean	Channel15/GasB/AlarmHHOccurred/15020200
Channel 15 Gas B Alarm H occurred	Boolean	Channel15/GasB/AlarmHOccurred/15020300
Channel 15 Gas B Alarm L occurred	Boolean	Channel15/GasB/AlarmLOccurred/15020400
Channel 15 Gas B Alarm LL occurred	Boolean	Channel15/GasB/AlarmLLOccurred/15020500
Channel 15 Filter B alignment error flag	Boolean	Channel15/FilterB/AlignmentErrorFlag/15020600
Channel 15 Gas C Concentration	Float	Channel15/GasC/Concentration/15030100
Channel 15 Gas C Alarm HH occurred	Boolean	Channel15/GasC/AlarmHHOccurred/15030200
Channel 15 Gas C Alarm H occurred	Boolean	Channel15/GasC/AlarmHOccurred/15030300
Channel 15 Gas C Alarm L occurred	Boolean	Channel15/GasC/AlarmLOccurred/15030400
Channel 15 Gas C Alarm LL occurred	Boolean	Channel15/GasC/AlarmLLOccurred/15030500
Channel 15 Filter C alignment error flag	Boolean	Channel15/FilterC/AlignmentErrorFlag/15030600
Channel 15 Gas D Concentration	Float	Channel15/GasD/Concentration/15040100
Channel 15 Gas D Alarm HH occurred	Boolean	Channel15/GasD/AlarmHHOccurred/15040200
Channel 15 Gas D Alarm H occurred	Boolean	Channel15/GasD/AlarmHOccurred/15040300
Channel 15 Gas D Alarm L occurred	Boolean	Channel15/GasD/AlarmLOccurred/15040400
Channel 15 Gas D Alarm LL occurred	Boolean	Channel15/GasD/AlarmLLOccurred/15040500
Channel 15 Filter D alignment error flag	Boolean	Channel15/FilterD/AlignmentErrorFlag/15040600
Channel 15 Gas E Concentration	Float	Channel15/GasE/Concentration/15050100
Channel 15 Gas E Alarm HH occurred	Boolean	Channel15/GasE/AlarmHHOccurred/15050200
Channel 15 Gas E Alarm H occurred	Boolean	Channel15/GasE/AlarmHOccurred/15050300
Channel 15 Gas E Alarm L occurred	Boolean	Channel15/GasE/AlarmLOccurred/15050400
Channel 15 Gas E Alarm LL occurred	Boolean	Channel15/GasE/AlarmLLOccurred/15050500
Channel 15 Filter E alignment error flag	Boolean	Channel15/FilterE/AlignmentErrorFlag/15050600
Channel 15 Gas W Concentration	Float	Channel15/GasW/Concentration/15060100
Channel 15 Gas W Alarm HH occurred	Boolean	Channel15/GasW/AlarmHHOccurred/15060200
Channel 15 Gas W Alarm H occurred	Boolean	Channel15/GasW/AlarmHOccurred/15060300
Channel 15 Gas W Alarm L occurred	Boolean	Channel15/GasW/AlarmLOccurred/15060400
Channel 15 Gas W Alarm LL occurred	Boolean	Channel15/GasW/AlarmLLOccurred/15060500
Channel 15 Filter W alignment error flag	Boolean	Channel15/FilterW/AlignmentErrorFlag/15060600
Channel 15 Pressure	Float	Channel15/Pressure/15500100
Channel 15 Gas Monitor Air flag	Boolean	Channel15/GasMonitor/Airflag/15500200
Channel 15 Gas Monitor Error flag	Boolean	Channel15/GasMonitor/Errorflag/15500300
Channel 15 Gas Monitor Warning flag	Boolean	Channel15/GasMonitor/Warningflag/15500400
Channel 15 Monitor Display Error Message	String	Channel15/GasMonitor/MonitorDisplayErrorMessage/15500500
Channel 15 Monitor Display Warning Message	String	Channel15/GasMonitor/MonitorDisplayWarningMessage/15500600
Channel 15 Multiplexer error flag	Boolean	Channel15/Multiplexer/errorflag/15600100
Channel 15 Multiplexer warning flag	Boolean	Channel15/Multiplexer/warningflag/15600200
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Channel 15 Multiplexer error number	Long	Channel15/Multipleyer/errorpumber/15600300
•	Long	Channel15/Multiplexer/errornumber/15600300
Channel 15 Multiplexer warning number	Long	Channel15/Multiplexer/warningnumber/15600400
Channel 15 Multiplexer Error Description	String String	Channel15/Multiplexer/ErrorDescription/15600600 Channel15/Multiplexer/WarningDescription/15600700
Channel 15 Multiplexer Warning Description	Float	Channel16/GasA/Concentration/16010100
Channel 16 Gas A Concentration Channel 16 Gas A Alarm HH occurred	Boolean	Channel16/GasA/AlarmHHOccurred/16010200
		Channel16/GasA/AlarmHOccurred/16010300
Channel 16 Gas A Alarm H occurred Channel 16 Gas A Alarm L occurred	Boolean	
	Boolean	Channel16/GasA/AlarmLOccurred/16010400
Channel 16 Gas A Alarm LL occurred	Boolean	Channel16/GasA/AlarmLLOccurred/16010500
Channel 16 Filter A alignment error flag	Boolean	Channel16/FilterA/AlignmentErrorFlag/16010600
Channel 16 Gas B Concentration	Float	Channel16/GasB/Concentration/16020100
Channel 16 Gas B Alarm HH occurred	Boolean	Channel16/GasB/AlarmHHOccurred/16020200
Channel 16 Gas B Alarm H occurred	Boolean	Channel16/GasB/AlarmHOccurred/16020300
Channel 16 Gas B Alarm L occurred	Boolean	Channel16/GasB/AlarmLOccurred/16020400
Channel 16 Gas B Alarm LL occurred	Boolean	Channel16/GasB/AlarmLLOccurred/16020500
Channel 16 Filter B alignment error flag	Boolean	Channel16/FilterB/AlignmentErrorFlag/16020600
Channel 16 Gas C Concentration	Float	Channel16/GasC/Concentration/16030100
Channel 16 Gas C Alarm HH occurred	Boolean	Channel16/GasC/AlarmHHOccurred/16030200
Channel 16 Gas C Alarm H occurred	Boolean	Channel16/GasC/AlarmHOccurred/16030300
Channel 16 Gas C Alarm L occurred	Boolean	Channel16/GasC/AlarmLOccurred/16030400
Channel 16 Gas C Alarm LL occurred	Boolean	Channel16/GasC/AlarmLLOccurred/16030500
Channel 16 Filter C alignment error flag	Boolean	Channel16/FilterC/AlignmentErrorFlag/16030600
Channel 16 Gas D Concentration	Float	Channel16/GasD/Concentration/16040100
Channel 16 Gas D Alarm HH occurred	Boolean	Channel16/GasD/AlarmHHOccurred/16040200
Channel 16 Gas D Alarm H occurred	Boolean	Channel16/GasD/AlarmHOccurred/16040300
Channel 16 Gas D Alarm L occurred	Boolean	Channel16/GasD/AlarmLOccurred/16040400
Channel 16 Gas D Alarm LL occurred	Boolean	Channel16/GasD/AlarmLLOccurred/16040500
Channel 16 Filter D alignment error flag	Boolean	Channel16/FilterD/AlignmentErrorFlag/16040600
Channel 16 Gas E Concentration	Float	Channel16/GasE/Concentration/16050100
Channel 16 Gas E Alarm HH occurred	Boolean	Channel16/GasE/AlarmHHOccurred/16050200
Channel 16 Gas E Alarm H occurred	Boolean	Channel16/GasE/AlarmHOccurred/16050300
Channel 16 Gas E Alarm L occurred	Boolean	Channel16/GasE/AlarmLOccurred/16050400
Channel 16 Gas E Alarm LL occurred	Boolean	Channel16/GasE/AlarmLLOccurred/16050500
Channel 16 Filter E alignment error flag	Boolean	Channel16/FilterE/AlignmentErrorFlag/16050600
Channel 16 Gas W Concentration	Float	Channel16/GasW/Concentration/16060100
Channel 16 Gas W Alarm HH occurred	Boolean	Channel16/GasW/AlarmHHOccurred/16060200
Channel 16 Gas W Alarm H occurred	Boolean	Channel16/GasW/AlarmHOccurred/16060300
Channel 16 Gas W Alarm L occurred	Boolean	Channel16/GasW/AlarmLOccurred/16060400
Channel 16 Gas W Alarm LL occurred	Boolean	Channel16/GasW/AlarmLLOccurred/16060500
Channel 16 Filter W alignment error flag	Boolean	Channel16/FilterW/AlignmentErrorFlag/16060600
Channel 16 Pressure	Float	Channel16/Pressure/16500100
Channel 16 Gas Monitor Air flag	Boolean	Channel16/GasMonitor/Airflag/16500200
Channel 16 Gas Monitor Error flag	Boolean	Channel16/GasMonitor/Errorflag/16500300
Channel 16 Gas Monitor Warning flag	Boolean	Channel16/GasMonitor/Warningflag/16500400
Channel 16 Monitor Display Error Message	String	Channel16/GasMonitor/MonitorDisplayErrorMessage/16500500
Channel 16 Monitor Display Warning Message	String	Channel16/GasMonitor/MonitorDisplayWarningMessage/16500600
Channel 16 Multiplexer error flag	Boolean	Channel16/Multiplexer/errorflag/16600100
Channel 16 Multiplexer warning flag	Boolean	Channel16/Multiplexer/warningflag/16600200
Channel 16 Multiplexer error number	Long	Channel16/Multiplexer/errornumber/16600300
Channel 16 Multiplexer warning number	Long	Channel16/Multiplexer/warningnumber/16600400
Channel 16 Multiplexer Error Description	String	Channel16/Multiplexer/ErrorDescription/16600600
Channel 16 Multiplexer Warning Description	String	Channel16/Multiplexer/WarningDescription/16600700

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Channel 17 Gas A Concentration	Float	Channel17/GasA/Concentration/17010100
Channel 17 Gas A Alarm HH occurred	Boolean	Channel17/GasA/AlarmHHOccurred/17010200
Channel 17 Gas A Alarm H occurred	Boolean	Channel17/GasA/AlarmHOccurred/17010300
Channel 17 Gas A Alarm L occurred	Boolean	Channel17/GasA/AlarmLOccurred/17010400
Channel 17 Gas A Alarm LL occurred	Boolean	Channel17/GasA/AlarmLLOccurred/17010500
Channel 17 Filter A alignment error flag	Boolean	Channel17/FilterA/AlignmentErrorFlag/17010600
Channel 17 Gas B Concentration	Float	Channel17/GasB/Concentration/17020100
Channel 17 Gas B Alarm HH occurred	Boolean	Channel17/GasB/AlarmHHOccurred/17020200
Channel 17 Gas B Alarm H occurred	Boolean	Channel17/GasB/AlarmHOccurred/17020300
Channel 17 Gas B Alarm L occurred	Boolean	Channel17/GasB/AlarmLOccurred/17020400
Channel 17 Gas B Alarm LL occurred	Boolean	Channel17/GasB/AlarmLLOccurred/17020500
Channel 17 Filter B alignment error flag	Boolean	Channel17/FilterB/AlignmentErrorFlag/17020600
Channel 17 Gas C Concentration	Float	Channel17/GasC/Concentration/17030100
Channel 17 Gas C Alarm HH occurred	Boolean	Channel17/GasC/AlarmHHOccurred/17030200
Channel 17 Gas C Alarm H occurred	Boolean	Channel17/GasC/AlarmHOccurred/17030300
Channel 17 Gas C Alarm L occurred	Boolean	Channel17/GasC/AlarmLOccurred/17030400
Channel 17 Gas C Alarm LL occurred	Boolean	Channel17/GasC/AlarmLLOccurred/17030500
Channel 17 Filter C alignment error flag	Boolean	Channel17/FilterC/AlignmentErrorFlag/17030600
Channel 17 Gas D Concentration	Float	Channel17/GasD/Concentration/17040100
Channel 17 Gas D Alarm HH occurred	Boolean	Channel17/GasD/AlarmHHOccurred/17040200
Channel 17 Gas D Alarm H occurred	Boolean	Channel17/GasD/AlarmHOccurred/17040300
Channel 17 Gas D Alarm L occurred	Boolean	Channel17/GasD/AlarmLOccurred/17040400
Channel 17 Gas D Alarm LL occurred	Boolean	Channel17/GasD/AlarmLLOccurred/17040500
Channel 17 Filter D alignment error flag	Boolean	Channel17/FilterD/AlignmentErrorFlag/17040600
Channel 17 Gas E Concentration	Float	Channel17/GasE/Concentration/17050100
Channel 17 Gas E Alarm HH occurred	Boolean	Channel17/GasE/AlarmHHOccurred/17050200
Channel 17 Gas E Alarm H occurred	Boolean	Channel17/GasE/AlarmHOccurred/17050300
Channel 17 Gas E Alarm L occurred	Boolean	Channel17/GasE/AlarmLOccurred/17050400
Channel 17 Gas E Alarm LL occurred	Boolean	Channel17/GasE/AlarmLLOccurred/17050500
Channel 17 Filter E alignment error flag	Boolean	Channel17/FilterE/AlignmentErrorFlag/17050600
Channel 17 Gas W Concentration	Float	Channel17/GasW/Concentration/17060100
Channel 17 Gas W Alarm HH occurred	Boolean	Channel17/GasW/AlarmHHOccurred/17060200
Channel 17 Gas W Alarm H occurred	Boolean	Channel17/GasW/AlarmHOccurred/17060300
Channel 17 Gas W Alarm L occurred	Boolean	Channel17/GasW/AlarmLOccurred/17060400
Channel 17 Gas W Alarm LL occurred	Boolean	Channel17/GasW/AlarmLLOccurred/17060500
Channel 17 Filter W alignment error flag	Boolean	Channel17/FilterW/AlignmentErrorFlag/17060600
Channel 17 Pressure	Float	Channel17/Pressure/17500100
Channel 17 Gas Monitor Air flag	Boolean	Channel17/GasMonitor/Airflag/17500200
Channel 17 Gas Monitor Error flag	Boolean	Channel17/GasMonitor/Errorflag/17500300
Channel 17 Gas Monitor Warning flag	Boolean	Channel17/GasMonitor/Warningflag/17500400
Channel 17 Monitor Display Error Message	String	Channel17/GasMonitor/MonitorDisplayErrorMessage/17500500
Channel 17 Monitor Display Warning Message	String	Channel17/GasMonitor/MonitorDisplayWarningMessage/17500600
Channel 17 Multiplexer error flag	Boolean	Channel17/Multiplexer/errorflag/17600100
Channel 17 Multiplexer warning flag	Boolean	Channel17/Multiplexer/warningflag/17600200
Channel 17 Multiplexer error number	Long	Channel17/Multiplexer/errornumber/17600300
Channel 17 Multiplexer warning number	Long	Channel17/Multiplexer/warningnumber/17600400
Channel 17 Multiplexer Error Description	String	Channel17/Multiplexer/ErrorDescription/17600600
Channel 17 Multiplexer Warning Description	String	Channel17/Multiplexer/WarningDescription/17600700
Channel 18 Gas A Concentration	Float	Channel18/GasA/Concentration/18010100
Channel 18 Gas A Alarm HH occurred	Boolean	Channel18/GasA/AlarmHHOccurred/18010200
Channel 18 Gas A Alarm H occurred	Boolean	Channel18/GasA/AlarmHOccurred/18010300
Channel 18 Gas A Alarm L occurred	Boolean	Channel18/GasA/AlarmLOccurred/18010400

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Channel 18 Gas A Alarm LL occurred	Boolean	Channel18/GasA/AlarmLLOccurred/18010500
Channel 18 Filter A alignment error flag	Boolean	Channel18/FilterA/AlignmentErrorFlag/18010600
Channel 18 Gas B Concentration	Float	Channel18/GasB/Concentration/18020100
Channel 18 Gas B Alarm HH occurred	Boolean	Channel 18/GasB/AlarmHHOccurred/18020200
Channel 18 Gas B Alarm H occurred	Boolean	Channel18/GasB/AlarmHOccurred/18020300
Channel 18 Gas B Alarm L occurred	Boolean	Channel18/GasB/AlarmLOccurred/18020400
Channel 18 Gas B Alarm LL occurred	Boolean	Channel18/GasB/AlarmLLOccurred/18020500
Channel 18 Filter B alignment error flag	Boolean	Channel18/FilterB/AlignmentErrorFlag/18020600
Channel 18 Gas C Concentration	Float	Channel18/GasC/Concentration/18030100
Channel 18 Gas C Alarm HH occurred	Boolean	Channel18/GasC/AlarmHHOccurred/18030200
Channel 18 Gas C Alarm H occurred	Boolean	Channel18/GasC/AlarmHOccurred/18030300
Channel 18 Gas C Alarm L occurred	Boolean	Channel18/GasC/AlarmLOccurred/18030400
Channel 18 Gas C Alarm LL occurred	Boolean	Channel18/GasC/AlarmLLOccurred/18030500
Channel 18 Filter C alignment error flag	Boolean	Channel18/FilterC/AlignmentErrorFlag/18030600
Channel 18 Gas D Concentration	Float	Channel18/GasD/Concentration/18040100
Channel 18 Gas D Alarm HH occurred	Boolean	Channel18/GasD/AlarmHHOccurred/18040200
Channel 18 Gas D Alarm H occurred	Boolean	Channel18/GasD/AlarmHOccurred/18040300
Channel 18 Gas D Alarm L occurred	Boolean	Channel18/GasD/AlarmLOccurred/18040400
Channel 18 Gas D Alarm LL occurred	Boolean	Channel18/GasD/AlarmLLOccurred/18040500
Channel 18 Filter D alignment error flag	Boolean	Channel18/FilterD/AlignmentErrorFlag/18040600
Channel 18 Gas E Concentration	Float	Channel18/GasE/Concentration/18050100
Channel 18 Gas E Alarm HH occurred	Boolean	Channel18/GasE/AlarmHHOccurred/18050200
Channel 18 Gas E Alarm H occurred	Boolean	Channel18/GasE/AlarmHOccurred/18050300
Channel 18 Gas E Alarm L occurred	Boolean	Channel18/GasE/AlarmLOccurred/18050400
Channel 18 Gas E Alarm LL occurred	Boolean	Channel18/GasE/AlarmLLOccurred/18050500
Channel 18 Filter E alignment error flag	Boolean	Channel18/FilterE/AlignmentErrorFlag/18050600
Channel 18 Gas W Concentration	Float	Channel18/GasW/Concentration/18060100
Channel 18 Gas W Alarm HH occurred	Boolean	Channel18/GasW/AlarmHHOccurred/18060200
Channel 18 Gas W Alarm H occurred	Boolean	Channel18/GasW/AlarmHOccurred/18060300
Channel 18 Gas W Alarm L occurred	Boolean	Channel18/GasW/AlarmLOccurred/18060400
Channel 18 Gas W Alarm LL occurred	Boolean	Channel18/GasW/AlarmLLOccurred/18060500
Channel 18 Filter W alignment error flag	Boolean	Channel18/FilterW/AlignmentErrorFlag/18060600
Channel 18 Pressure	Float	Channel18/Pressure/18500100
Channel 18 Gas Monitor Air flag	Boolean	Channel18/GasMonitor/Airflag/18500200
Channel 18 Gas Monitor Error flag	Boolean	Channel18/GasMonitor/Errorflag/18500300
Channel 18 Gas Monitor Warning flag	Boolean	Channel18/GasMonitor/Warningflag/18500400
Channel 18 Monitor Display Error Message	String	Channel18/GasMonitor/MonitorDisplayErrorMessage/18500500
Channel 18 Monitor Display Warning Message	String	Channel18/GasMonitor/MonitorDisplayWarningMessage/18500600
Channel 18 Multiplexer error flag	Boolean	Channel18/Multiplexer/errorflag/18600100
Channel 18 Multiplexer warning flag	Boolean	Channel18/Multiplexer/warningflag/18600200
Channel 18 Multiplexer error number	Long	Channel18/Multiplexer/errornumber/18600300
Channel 18 Multiplexer warning number	Long	Channel18/Multiplexer/warningnumber/18600400
Channel 18 Multiplexer Error Description	String	Channel18/Multiplexer/ErrorDescription/18600600
Channel 18 Multiplexer Warning Description	String	Channel18/Multiplexer/WarningDescription/18600700
Channel 19 Gas A Concentration	Float	Channel19/GasA/Concentration/19010100
Channel 19 Gas A Alarm HH occurred	Boolean	Channel19/GasA/AlarmHHOccurred/19010200
Channel 19 Gas A Alarm H occurred	Boolean	Channel19/GasA/AlarmHOccurred/19010300
Channel 19 Gas A Alarm L occurred	Boolean	Channel19/GasA/AlarmLOccurred/19010400
Channel 19 Gas A Alarm LL occurred	Boolean	Channel19/GasA/AlarmLLOccurred/19010500
Channel 19 Filter A alignment error flag	Boolean	Channel19/FilterA/AlignmentErrorFlag/19010600
Channel 19 Gas B Concentration	Float	Channel19/GasB/Concentration/19020100
Channel 19 Gas B Alarm HH occurred	Boolean	Channel19/GasB/AlarmHHOccurred/19020200

Channel 19 Gas B Alarm L occurred Soolean Channel 19 Gas C Concentration Float Channel 19 Gas C Charm Ho occurred Soolean Channel 19 Gas C Charm L occurred Soolean Channel 19 Gas C Charm Ho occurred Soolean Channel 19 Gas C Alarm Ho occurred Soolean Channel 19 Gas C Alarm L occurred Soolean Channel 19 Gas C Denocritation Float Channel 19 Gas D Alarm Ho occurred Soolean Channel 19 Gas D Alarm Ho occurred Soolean Channel 19 Gas D Alarm Ho occurred Soolean Channel 19 Gas D Alarm L occurred Soolean Channel 19 Gas D Alarm L occurred Soolean Channel 19 Gas D Alarm L occurred Soolean Channel 19 Gas D Alarm Ho occurred Soolean Channel 19 Gas D Alarm L occurred Soolean Channel 19 Gas D Alarm L occurred Soolean Channel 19 Gas D Alarm Ho occurred Soolean Channel 19 Gas E Concentration Float Channel 19 Gas E Concentration Float Channel 19 Gas E Alarm Ho occurred Soolean Channel 19 Gas W Alarm Ho occurred	Ob a read 40 Oca D Al	D- 1	Ob
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Channel 19 Filter W alignment error flag Channel 19 Pressure Float Channel 19 Pressure Float Channel 19 Gas Monitor Air flag Boolean Channel 19 Gas Monitor Firor flag Boolean Channel 19 Gas Monitor Error flag Channel 19 Gas Monitor Error flag Boolean Channel 19 Gas Monitor Error flag Channel 19 Gas Monitor Warning flag Channel 19 Gas Monitor Warning flag Channel 19 Gas Monitor Warning flag Channel 19 Monitor Display Error Message String Channel 19 Monitor Display Error Message String Channel 19 Monitor Display Warning Message String Channel 19 Monitor Display Warning Message String Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer warning flag Boolean Channel 19 Multiplexer/errorflag/19600100 Channel 19 Multiplexer warning flag Boolean Channel 19 Multiplexer/errorrlag/19600200 Channel 19 Multiplexer warning number Long Channel 19 Multiplexer/errorrumber/19600300 Channel 19 Multiplexer warning number Long Channel 19 Multiplexer/errorrumber/19600400 Channel 19 Multiplexer Warning Description String Channel 19 Multiplexer/ErrorDescription/19600600 Channel 19 Multiplexer Warning Description String Channel 19/Multiplexer/ErrorDescription/19600700 Channel 20 Gas A Concentration Float Channel 20 Gas A Alarm HH occurred Boolean Channel 20 Gas A Alarm H occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas B Concentration Float Channel 20 Gas B Alarm HH occurred Boolean Channel 20 Gas B B Alarm HH occurred Boolean Channel 20 Gas B B Alarm HH occurred Boolean Channel 20 Gas B B Alarm HH occurred Boolean Channel 20 Gas B B Alarm HH occurred Boolean Channel 20 G	Channel 19 Gas W Alarm L occurred	Boolean	Channel19/GasW/AlarmLOccurred/19060400
Channel 19 Pressure Float Channel19/Pressure/19500100 Channel 19 Gas Monitor Air flag Boolean Channel19/GasMonitor/Airflag/19500200 Channel 19 Gas Monitor Error flag Boolean Channel19/GasMonitor/Errorflag/19500300 Channel 19 Gas Monitor Warning flag Boolean Channel19/GasMonitor/Warningflag/19500400 Channel 19 Monitor Display Error Message String Channel19/GasMonitor/MonitorDisplayErrorMessage/19500500 Channel 19 Monitor Display Warning Message String Channel19/GasMonitor/MonitorDisplayWarningMessage/19500600 Channel 19 Multiplexer error flag Boolean Channel19/Multiplexer/errorflag/19600100 Channel 19 Multiplexer warning flag Boolean Channel19/Multiplexer/errormlag/19600200 Channel 19 Multiplexer warning number Long Channel19/Multiplexer/errornumber/19600300 Channel 19 Multiplexer Error Description String Channel19/Multiplexer/ErrorDescription/19600400 Channel 19 Multiplexer Warning Description String Channel19/Multiplexer/WarningDescription/19600600 Channel 20 Gas A Concentration Float Channel20/GasA/Concentration/20010100 Channel 20 Gas A Alarm HH occurred Boolean Channel20/GasA/AlarmHHOccurred/20010200 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmHOccurred/20010300 Channel 20 Gas B Alarm L occurred Boolean Channel20/GasA/AlarmL Cocurred/20010500 Channel 20 Gas B Alarm L occurred Boolean Channel20/GasA/AlarmHOccurred/20010500 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasA/AlarmHOccurred/20010500 Channel 20 Gas B Concentration Float Channel20/GasA/AlarmHOccurred/20010500 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasA/AlarmHOccurred/20010500 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasA/AlarmHOccurred/20010500 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/Concentration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHOccurred/20020200	Channel 19 Gas W Alarm LL occurred	Boolean	Channel19/GasW/AlarmLLOccurred/19060500
Channel 19 Gas Monitor Air flag Boolean Channel 19 Gas Monitor Error flag Boolean Channel 19 Gas Monitor Error flag Boolean Channel 19 Gas Monitor Warning flag Boolean Channel 19 Gas Monitor Warning flag Boolean Channel 19 Gas Monitor Warning flag Boolean Channel 19 Monitor Display Error Message Channel 19 Monitor Display Warning Message String Channel 19 Monitor Display Warning Message Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer warning flag Channel 19 Multiplexer warning flag Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Long Channel 19 Multiplexer Error Description Channel 19 Multiplexer Warning Description String Channel 19 Multiplexer/WarningDescription/19600600 Channel 20 Gas A Concentration Float Channel 20 Gas A Alarm H occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas B Concentration Float Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas A Alarm L occurred Boolean Channel 20 Gas B Alarm H occurred Boolean Channel 20 Gas B Alarm L occurred Boolean Channel 20 Gas B Alarm L occurred Boolean Channel 20 Gas B Alarm L occurred Boolean Channel 20 Gas B Alarm H occurred Boolean Channel 20 Gas B Alarm L occurred Boolean Channel 20 Gas B Alarm L occurred Boolean Channel 20 Gas B Concentration Float Channel 20 Gas B Concentration Float Channel 20 Gas B Alarm H occurred Boolean	Channel 19 Filter W alignment error flag	Boolean	Channel19/FilterW/AlignmentErrorFlag/19060600
Channel 19 Gas Monitor Error flag	Channel 19 Pressure	Float	Channel19/Pressure/19500100
Channel 19 Gas Monitor Warning flagBooleanChannel19/GasMonitor/Warningflag/19500400Channel 19 Monitor Display Error MessageStringChannel19/GasMonitor/MonitorDisplayErrorMessage/19500500Channel 19 Monitor Display Warning MessageStringChannel19/GasMonitor/MonitorDisplayWarningMessage/19500600Channel 19 Multiplexer error flagBooleanChannel19/Multiplexer/errorflag/19600100Channel 19 Multiplexer warning flagBooleanChannel19/Multiplexer/warningflag/19600200Channel 19 Multiplexer error numberLongChannel19/Multiplexer/errornumber/19600300Channel 19 Multiplexer warning numberLongChannel19/Multiplexer/warningnumber/19600400Channel 19 Multiplexer Error DescriptionStringChannel19/Multiplexer/ErrorDescription/19600600Channel 19 Multiplexer Warning DescriptionStringChannel19/Multiplexer/WarningDescription/19600700Channel 20 Gas A ConcentrationFloatChannel20/GasA/Concentration/20010100Channel 20 Gas A Alarm HH occurredBooleanChannel20/GasA/AlarmHHOccurred/20010200Channel 20 Gas A Alarm L occurredBooleanChannel20/GasA/AlarmHOccurred/20010400Channel 20 Gas A Alarm L occurredBooleanChannel20/GasA/AlarmLOccurred/20010500Channel 20 Gas B ConcentrationFloatChannel20/FilterA/AlignmentErrorFlag/20010600Channel 20 Gas B ConcentrationFloatChannel20/GasB/Concentration/20020100Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/200202000 <td></td> <td></td> <td>Channel19/GasMonitor/Airflag/19500200</td>			Channel19/GasMonitor/Airflag/19500200
Channel 19 Monitor Display Error Message Channel 19 Monitor Display Warning Message String Channel 19 Monitor Display Warning Message Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer warning flag Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Channel 19 Multiplexer Error Description String Channel19/Multiplexer/FrrorDescription/19600600 Channel 19 Multiplexer Warning Description String Channel19/Multiplexer/WarningDescription/19600600 Channel 19 Multiplexer Warning Description String Channel19/Multiplexer/WarningDescription/19600600 Channel 20 Gas A Concentration Float Channel20/GasA/Concentration/20010100 Channel 20 Gas A Alarm H occurred Boolean Channel20/GasA/AlarmHHOccurred/20010200 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmHOccurred/20010300 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010500 Channel 20 Gas B Concentration Float Channel20/GasB/Concentration/20020100 Channel 20 Gas B Concentration Float Channel20/GasB/Concentration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200	Channel 19 Gas Monitor Error flag	Boolean	Channel19/GasMonitor/Errorflag/19500300
Channel 19 Monitor Display Warning Message   String   Channel 19/GasMonitor/Monitor Display Warning Message/19500600   Channel 19 Multiplexer error flag   Boolean   Channel 19/Multiplexer warning flag   Boolean   Channel 19/Multiplexer/warning flag/19600200   Channel 19 Multiplexer warning flag   Channel 19/Multiplexer/warning flag/19600200   Channel 19/Multiplexer warning number   Long   Channel 19/Multiplexer/warning number/19600300   Channel 19/Multiplexer warning number   Long   Channel 19/Multiplexer/warning number/19600400   Channel 19/Multiplexer warning Description   String   Channel 19/Multiplexer/Error Description/19600600   Channel 19/Multiplexer Warning Description   String   Channel 19/Multiplexer/Warning Description/19600700   Channel 20/Gas A Concentration   Float   Channel 20/Gas A/Concentration/20010100   Channel 20/Gas A Alarm HH occurred   Boolean   Channel 20/Gas A/Alarm HH Occurred/20010200   Channel 20/Gas A Alarm H occurred   Boolean   Channel 20/Gas A/Alarm HOccurred/20010300   Channel 20/Gas A Alarm L occurred   Boolean   Channel 20/Gas A/Alarm L Occurred/20010400   Channel 20/Filter A alignment error flag   Boolean   Channel 20/Filter A/Alignment Error Flag/20010600   Channel 20/Gas B Concentration   Float   Channel 20/Gas B/Alarm HH Occurred/20020200   Channel 20/Gas B Alarm HH occurred   Boolean   Channel 20/Gas B/Alarm HH Occurred/20020200   Channel 20/Gas B Alarm HH occurred   Boolean   Channel 20/Gas B/Alarm HH Occurred/20020200   Channel 20/Gas B Alarm HH occurred   Boolean   Channel 20/Gas B/Alarm HH Occurred/20020200   Channel 20/Gas B/Alarm HOccurred/20020300   Channel 20/Gas B/Alarm HOcc	Channel 19 Gas Monitor Warning flag	Boolean	Channel19/GasMonitor/Warningflag/19500400
Channel 19 Multiplexer error flag Boolean Channel 19 Multiplexer warning flag Boolean Channel 19 Multiplexer warning flag Channel 19 Multiplexer error number Long Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Long Channel 19 Multiplexer warning number Long Channel 19 Multiplexer Error Description Channel 19 Multiplexer Error Description String Channel 19 Multiplexer/ErrorDescription/19600600 Channel 19 Multiplexer Warning Description String Channel 19/Multiplexer/WarningDescription/19600700 Channel 20 Gas A Concentration Float Channel 20/GasA/Concentration/20010100 Channel 20 Gas A Alarm HH occurred Boolean Channel 20/GasA/AlarmHHOccurred/20010200 Channel 20 Gas A Alarm L occurred Boolean Channel 20/GasA/AlarmHOccurred/20010300 Channel 20 Gas A Alarm LL occurred Boolean Channel 20/GasA/AlarmLOccurred/20010400 Channel 20 Gas B Alarm L occurred Boolean Channel 20/GasA/AlarmLOccurred/20010500 Channel 20 Gas B Alarm HH occurred Boolean Channel 20/GasB/AlarmLOccurred/20010600 Channel 20 Gas B Concentration Float Channel 20/GasB/Concentration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel 20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel Channel Coloration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel Channel Coloration/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel Channel Coloration/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel Channel Coloration/20020300	Channel 19 Monitor Display Error Message	String	Channel19/GasMonitor/MonitorDisplayErrorMessage/19500500
Channel 19 Multiplexer warning flag  Channel 19 Multiplexer error number  Long  Channel 19 Multiplexer error number  Long  Channel 19 Multiplexer warning number  Long  Channel 19 Multiplexer warning number  Channel 19 Multiplexer Error Description  Channel 19 Multiplexer Error Description  Channel 19 Multiplexer Warning Description  String  Channel 19 Multiplexer Warning Description  Channel 20 Gas A Concentration  Float  Channel 20/GasA/Concentration/20010100  Channel 20 Gas A Alarm HH occurred  Boolean  Channel 20/GasA/AlarmHHOccurred/20010200  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20/GasA/AlarmLOccurred/20010300  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20/GasA/AlarmLOccurred/20010400  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20/GasA/AlarmLOccurred/20010500  Channel 20 Gas B Concentration  Float  Channel 20/GasB/Concentration/20020100  Channel 20 Gas B Concentration  Float  Channel 20/GasB/Concentration/20020100  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20/GasB/AlarmHHOccurred/20020200  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20/GasB/AlarmHHOccurred/20020200  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20/GasB/AlarmHHOccurred/20020300	Channel 19 Monitor Display Warning Message	String	Channel19/GasMonitor/MonitorDisplayWarningMessage/19500600
Channel 19 Multiplexer error number  Channel 19 Multiplexer warning number  Long  Channel19/Multiplexer/warningnumber/19600300  Channel 19 Multiplexer Error Description  String  Channel19/Multiplexer/ErrorDescription/19600600  Channel 19 Multiplexer Warning Description  String  Channel19/Multiplexer/WarningDescription/19600700  Channel 20 Gas A Concentration  Float  Channel20/GasA/Concentration/20010100  Channel 20 Gas A Alarm HH occurred  Boolean  Channel20/GasA/AlarmHHOccurred/20010200  Channel 20 Gas A Alarm L occurred  Boolean  Channel20/GasA/AlarmHOccurred/20010300  Channel 20 Gas A Alarm L occurred  Boolean  Channel20/GasA/AlarmLOccurred/20010400  Channel 20 Gas A Alarm L occurred  Boolean  Channel20/GasA/AlarmLOccurred/20010500  Channel 20 Filter A alignment error flag  Boolean  Channel20/FilterA/AlignmentErrorFlag/20010600  Channel 20 Gas B Concentration  Float  Channel20/GasB/Concentration/20020100  Channel 20 Gas B Alarm HH occurred  Boolean  Channel20/GasB/AlarmHHOccurred/20020200  Channel 20 Gas B Alarm HH occurred  Boolean  Channel20/GasB/AlarmHHOccurred/20020300	Channel 19 Multiplexer error flag	Boolean	Channel19/Multiplexer/errorflag/19600100
Channel 19 Multiplexer warning number Channel 19 Multiplexer Error Description String Channel19/Multiplexer/ErrorDescription/19600600 Channel 19 Multiplexer Warning Description String Channel19/Multiplexer/WarningDescription/19600700 Channel 20 Gas A Concentration Float Channel20/GasA/Concentration/20010100 Channel 20 Gas A Alarm HH occurred Boolean Channel20/GasA/AlarmHHOccurred/20010200 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmHOccurred/20010300 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010400 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010500 Channel 20 Filter A alignment error flag Boolean Channel20/FilterA/AlignmentErrorFlag/20010600 Channel 20 Gas B Concentration Float Channel20/GasB/Concentration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020300	Channel 19 Multiplexer warning flag	Boolean	Channel19/Multiplexer/warningflag/19600200
Channel 19 Multiplexer Error Description Channel 19 Multiplexer Warning Description String Channel19/Multiplexer/WarningDescription/19600600 Channel 20 Gas A Concentration Float Channel20/GasA/Concentration/20010100 Channel 20 Gas A Alarm HH occurred Boolean Channel20/GasA/AlarmHHOccurred/20010200 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmHOccurred/20010300 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010400 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010500 Channel 20 Gas A Alarm L occurred Boolean Channel20/GasA/AlarmLOccurred/20010500 Channel 20 Filter A alignment error flag Boolean Channel20/FilterA/AlignmentErrorFlag/20010600 Channel 20 Gas B Concentration Float Channel20/GasB/Concentration/20020100 Channel 20 Gas B Alarm HH occurred Boolean Channel20/GasB/AlarmHHOccurred/20020200 Channel 20 Gas B Alarm HH occurred Channel20/GasB/AlarmHHOccurred/20020300	Channel 19 Multiplexer error number	Long	Channel19/Multiplexer/errornumber/19600300
Channel 19 Multiplexer Warning Description  Channel 20 Gas A Concentration  Channel 20 Gas A Alarm HH occurred  Boolean  Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas B Concentration  Float  Channel 20 Gas B Concentration  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred  Channel 20 Gas B Alarm HOccurred  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred	Channel 19 Multiplexer warning number	Long	Channel19/Multiplexer/warningnumber/19600400
Channel 20 Gas A Concentration  Channel 20 Gas A Alarm HH occurred  Boolean  Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Filter A alignment error flag  Boolean  Channel 20 Gas B Concentration  Float  Channel 20 Gas B Concentration  Float  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HOccurred/20020200  Channel 20 Gas B Alarm H occurred  Boolean  Channel 20 Gas B Alarm HOccurred/20020300	Channel 19 Multiplexer Error Description	String	Channel19/Multiplexer/ErrorDescription/19600600
Channel 20 Gas A Alarm HH occurred  Boolean Channel20/GasA/AlarmHHOccurred/20010200  Channel 20 Gas A Alarm H occurred  Boolean Channel20/GasA/AlarmHOccurred/20010300  Channel 20 Gas A Alarm L occurred  Boolean Channel20/GasA/AlarmLOccurred/20010400  Channel 20 Gas A Alarm LL occurred  Boolean Channel20/GasA/AlarmLLOccurred/20010500  Channel 20 Filter A alignment error flag  Boolean Channel20/FilterA/AlignmentErrorFlag/20010600  Channel 20 Gas B Concentration  Float Channel20/GasB/Concentration/20020100  Channel 20 Gas B Alarm HH occurred  Boolean Channel20/GasB/AlarmHHOccurred/20020200  Channel 20 Gas B Alarm H occurred  Boolean Channel20/GasB/AlarmHHOccurred/20020300	Channel 19 Multiplexer Warning Description	String	Channel19/Multiplexer/WarningDescription/19600700
Channel 20 Gas A Alarm H occurred  Boolean  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Filter A alignment error flag  Boolean  Channel 20 Filter A alignment error flag  Boolean  Channel 20 Gas B Concentration  Float  Channel 20 Gas B Concentration  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred  Channel 20 Gas B Alarm HOccurred	Channel 20 Gas A Concentration	Float	Channel20/GasA/Concentration/20010100
Channel 20 Gas A Alarm L occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Gas A Alarm LL occurred  Boolean  Channel 20 Filter A alignment error flag  Boolean  Channel 20 Gas B Concentration  Float  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HH occurred  Boolean  Channel 20 Gas B Alarm HOccurred  Boolean  Channel 20 Gas B Alarm HOccurred	Channel 20 Gas A Alarm HH occurred	Boolean	Channel20/GasA/AlarmHHOccurred/20010200
Channel 20 Gas A Alarm LL occurredBooleanChannel20/GasA/AlarmLLOccurred/20010500Channel 20 Filter A alignment error flagBooleanChannel20/FilterA/AlignmentErrorFlag/20010600Channel 20 Gas B ConcentrationFloatChannel20/GasB/Concentration/20020100Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm H occurredBooleanChannel20/GasB/AlarmHOccurred/20020300	Channel 20 Gas A Alarm H occurred	Boolean	Channel20/GasA/AlarmHOccurred/20010300
Channel 20 Filter A alignment error flagBooleanChannel20/FilterA/AlignmentErrorFlag/20010600Channel 20 Gas B ConcentrationFloatChannel20/GasB/Concentration/20020100Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm H occurredBooleanChannel20/GasB/AlarmHOccurred/20020300	Channel 20 Gas A Alarm L occurred	Boolean	Channel20/GasA/AlarmLOccurred/20010400
Channel 20 Gas B ConcentrationFloatChannel20/GasB/Concentration/20020100Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm H occurredBooleanChannel20/GasB/AlarmHOccurred/20020300	Channel 20 Gas A Alarm LL occurred	Boolean	Channel20/GasA/AlarmLLOccurred/20010500
Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm H occurredBooleanChannel20/GasB/AlarmHOccurred/20020300	Channel 20 Filter A alignment error flag	Boolean	Channel20/FilterA/AlignmentErrorFlag/20010600
Channel 20 Gas B Alarm HH occurredBooleanChannel20/GasB/AlarmHHOccurred/20020200Channel 20 Gas B Alarm H occurredBooleanChannel20/GasB/AlarmHOccurred/20020300	Channel 20 Gas B Concentration	Float	Channel20/GasB/Concentration/20020100
Channel 20 Gas B Alarm H occurred Boolean Channel 20/GasB/Alarm HOccurred/20020300			
	Channel 20 Gas B Alarm L occurred		
Channel 20 Gas B Alarm LL occurred Boolean Channel20/GasB/AlarmLLOccurred/20020500			
Channel 20 Filter B alignment error flag Boolean Channel20/FilterB/AlignmentErrorFlag/20020600	_		

Observation 5	-14	Oh 100/O 0/O
	Float	Channel20/GasC/Concentration/20030100
	Boolean	Channel20/GasC/AlarmHHOccurred/20030200
	Boolean	Channel20/GasC/AlarmHOccurred/20030300
	Boolean	Channel20/GasC/AlarmL Occurred/20030400
	Boolean	Channel20/GasC/AllarmLLOccurred/20030500
	Boolean	Channel20/FilterC/AlignmentErrorFlag/20030600
	Float	Channel20/GasD/Concentration/20040100
	Boolean	Channel20/GasD/AlarmHHOccurred/20040200
	Boolean	Channel20/GasD/AlarmHOccurred/20040300
	Boolean	Channel20/GasD/AlarmLOccurred/20040400
	Boolean	Channel20/GasD/AlarmLLOccurred/20040500
	Boolean	Channel20/FilterD/AlignmentErrorFlag/20040600
	Float	Channel20/GasE/Concentration/20050100
	Boolean	Channel20/GasE/AlarmHHOccurred/20050200
	Boolean	Channel20/GasE/AlarmHOccurred/20050300
	Boolean	Channel20/GasE/AlarmLOccurred/20050400
	Boolean	Channel20/GasE/AlarmLLOccurred/20050500
	Boolean	Channel20/FilterE/AlignmentErrorFlag/20050600
	Float	Channel20/GasW/Concentration/20060100
	Boolean	Channel20/GasW/AlarmHHOccurred/20060200
	Boolean	Channel20/GasW/AlarmHOccurred/20060300
	Boolean	Channel20/GasW/AlarmLOccurred/20060400
	Boolean	Channel20/GasW/AlarmLLOccurred/20060500
	Boolean	Channel20/FilterW/AlignmentErrorFlag/20060600
	Float	Channel20/Pressure/20500100
	Boolean	Channel20/GasMonitor/Airflag/20500200
9	Boolean	Channel20/GasMonitor/Errorflag/20500300
<u> </u>	Boolean	Channel20/GasMonitor/Warningflag/20500400
	String	Channel20/GasMonitor/MonitorDisplayErrorMessage/20500500
	String	Channel20/GasMonitor/MonitorDisplayWarningMessage/20500600
	Boolean	Channel20/Multiplexer/errorflag/20600100
Channel 20 Multiplexer warning flag	Boolean	Channel20/Multiplexer/warningflag/20600200
	_ong	Channel20/Multiplexer/errornumber/20600300
Channel 20 Multiplexer warning number L	_ong	Channel20/Multiplexer/warningnumber/20600400
Channel 20 Multiplexer Error Description S	String	Channel20/Multiplexer/ErrorDescription/20600600
	String	Channel20/Multiplexer/WarningDescription/20600700
Channel 21 Gas A Concentration F	Float	Channel21/GasA/Concentration/21010100
Channel 21 Gas A Alarm HH occurred E	Boolean	Channel21/GasA/AlarmHHOccurred/21010200
Channel 21 Gas A Alarm H occurred E	Boolean	Channel21/GasA/AlarmHOccurred/21010300
Channel 21 Gas A Alarm L occurred E	Boolean	Channel21/GasA/AlarmLOccurred/21010400
Channel 21 Gas A Alarm LL occurred E	Boolean	Channel21/GasA/AlarmLLOccurred/21010500
Channel 21 Filter A alignment error flag	Boolean	Channel21/FilterA/AlignmentErrorFlag/21010600
Channel 21 Gas B Concentration F	Float	Channel21/GasB/Concentration/21020100
Channel 21 Gas B Alarm HH occurred E	Boolean	Channel21/GasB/AlarmHHOccurred/21020200
Channel 21 Gas B Alarm H occurred E	Boolean	Channel21/GasB/AlarmHOccurred/21020300
Channel 21 Gas B Alarm L occurred E	Boolean	Channel21/GasB/AlarmLOccurred/21020400
Channel 21 Gas B Alarm LL occurred E	Boolean	Channel21/GasB/AlarmLLOccurred/21020500
Channel 21 Filter B alignment error flag	Boolean	Channel21/FilterB/AlignmentErrorFlag/21020600
Channel 21 Gas C Concentration F	Float	Channel21/GasC/Concentration/21030100
Channel 21 Gas C Alarm HH occurred B	Boolean	Channel21/GasC/AlarmHHOccurred/21030200
	Boolean	Channel21/GasC/AlarmHOccurred/21030300
Channel 21 Gas C Alarm L occurred E	Boolean	Channel21/GasC/AlarmLOccurred/21030400

Channel 21 Gas C Alarm LL occurred	Boolean	Channel21/GasC/AlarmLLOccurred/21030500
Channel 21 Filter C alignment error flag	Boolean	Channel21/FilterC/AlignmentErrorFlag/21030600
Channel 21 Gas D Concentration	Float	Channel21/GasD/Concentration/21040100
Channel 21 Gas D Alarm HH occurred	Boolean	Channel21/GasD/AlarmHHOccurred/21040200
Channel 21 Gas D Alarm H occurred	Boolean	Channel21/GasD/AlarmHOccurred/21040300
Channel 21 Gas D Alarm L occurred	Boolean	Channel21/GasD/AlarmLOccurred/21040400
Channel 21 Gas D Alarm LL occurred	Boolean	Channel21/GasD/AlarmLLOccurred/21040500
Channel 21 Filter D alignment error flag	Boolean	Channel21/FilterD/AlignmentErrorFlag/21040600
Channel 21 Gas E Concentration	Float	Channel21/GasE/Concentration/21050100
Channel 21 Gas E Alarm HH occurred	Boolean	Channel21/GasE/AlarmHHOccurred/21050200
Channel 21 Gas E Alarm H occurred	Boolean	Channel21/GasE/AlarmHOccurred/21050300
Channel 21 Gas E Alarm L occurred	Boolean	Channel21/GasE/AlarmLOccurred/21050400
Channel 21 Gas E Alarm LL occurred	Boolean	Channel21/GasE/AlarmLLOccurred/21050500
Channel 21 Filter E alignment error flag	Boolean	Channel21/FilterE/AlignmentErrorFlag/21050600
Channel 21 Gas W Concentration	Float	Channel21/GasW/Concentration/21060100
Channel 21 Gas W Alarm HH occurred	Boolean	Channel21/GasW/AlarmHHOccurred/21060200
Channel 21 Gas W Alarm H occurred	Boolean	Channel21/GasW/AlarmHOccurred/21060300
Channel 21 Gas W Alarm L occurred	Boolean	Channel21/GasW/AlarmLOccurred/21060400
Channel 21 Gas W Alarm LL occurred	Boolean	Channel21/GasW/AlarmLLOccurred/21060500
Channel 21 Filter W alignment error flag	Boolean	Channel21/FilterW/AlignmentErrorFlag/21060600
Channel 21 Pressure	Float	Channel21/Pressure/21500100
Channel 21 Gas Monitor Air flag	Boolean	Channel21/GasMonitor/Airflag/21500200
Channel 21 Gas Monitor Error flag	Boolean	Channel21/GasMonitor/Errorflag/21500300
Channel 21 Gas Monitor Warning flag	Boolean	Channel21/GasMonitor/Warningflag/21500400
Channel 21 Monitor Display Error Message	String	Channel21/GasMonitor/MonitorDisplayErrorMessage/21500500
Channel 21 Monitor Display Warning Message	String	Channel21/GasMonitor/MonitorDisplayWarningMessage/21500600
Channel 21 Multiplexer error flag	Boolean	Channel21/Multiplexer/errorflag/21600100
Channel 21 Multiplexer warning flag	Boolean	Channel21/Multiplexer/warningflag/21600200
Channel 21 Multiplexer error number	Long	Channel21/Multiplexer/errornumber/21600300
Channel 21 Multiplexer warning number	Long	Channel21/Multiplexer/warningnumber/21600400
Channel 21 Multiplexer Error Description	String	Channel21/Multiplexer/ErrorDescription/21600600
Channel 21 Multiplexer Warning Description	String	Channel21/Multiplexer/WarningDescription/21600700
Channel 22 Gas A Concentration	Float	Channel22/GasA/Concentration/22010100
Channel 22 Gas A Alarm HH occurred	Boolean	Channel22/GasA/AlarmHHOccurred/22010200
Channel 22 Gas A Alarm H occurred	Boolean	Channel22/GasA/AlarmHOccurred/22010300
Channel 22 Gas A Alarm L occurred	Boolean	Channel22/GasA/AlarmLOccurred/22010400
Channel 22 Gas A Alarm LL occurred	Boolean	Channel22/GasA/AlarmLLOccurred/22010500
Channel 22 Filter A alignment error flag	Boolean	Channel22/FilterA/AlignmentErrorFlag/22010600
Channel 22 Gas B Concentration	Float	Channel22/GasB/Concentration/22020100
Channel 22 Gas B Alarm HH occurred	Boolean	Channel22/GasB/AlarmHHOccurred/22020200
Channel 22 Gas B Alarm H occurred	Boolean	Channel22/GasB/AlarmHOccurred/22020300
Channel 22 Gas B Alarm L occurred	Boolean	Channel22/GasB/AlarmLOccurred/22020400
Channel 22 Gas B Alarm LL occurred	Boolean	Channel22/GasB/AlarmLLOccurred/22020500
Channel 22 Filter B alignment error flag	Boolean	Channel22/FilterB/AlignmentErrorFlag/22020600
Channel 22 Gas C Concentration	Float	Channel22/GasC/Concentration/22030100
Channel 22 Gas C Alarm HH occurred	Boolean	Channel22/GasC/AlarmHHOccurred/22030200
Channel 22 Gas C Alarm H occurred	Boolean	Channel22/GasC/AlarmHOccurred/22030300
Channel 22 Gas C Alarm L occurred	Boolean	Channel22/GasC/AlarmLOccurred/22030400
Channel 22 Gas C Alarm LL occurred	Boolean	Channel22/GasC/AlarmLLOccurred/22030500
Channel 22 Filter C alignment error flag	Boolean	Channel22/FilterC/AlignmentErrorFlag/22030600
Channel 22 Gas D Concentration	Float	Channel22/GasD/Concentration/22040100
Channel 22 Gas D Alarm HH occurred	Boolean	Channel22/GasD/AlarmHHOccurred/22040200
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Channel 22 Gas D Alarm H occurred	Boolean	Channel22/GasD/AlarmHOccurred/22040300
Channel 22 Gas D Alarm L occurred	Boolean	Channel22/GasD/AlarmLOccurred/22040400
Channel 22 Gas D Alarm LL occurred	Boolean	Channel22/GasD/AlarmLLOccurred/22040500
Channel 22 Filter D alignment error flag	Boolean	Channel22/FilterD/AlignmentErrorFlag/22040600
Channel 22 Gas E Concentration	Float	Channel22/GasE/Concentration/22050100
Channel 22 Gas E Alarm HH occurred	Boolean	Channel22/GasE/AlarmHHOccurred/22050200
Channel 22 Gas E Alarm H occurred	Boolean	Channel22/GasE/AlarmHOccurred/22050300
Channel 22 Gas E Alarm L occurred	Boolean	Channel22/GasE/AlarmLOccurred/22050400
Channel 22 Gas E Alarm LL occurred	Boolean	Channel22/GasE/AlarmLLOccurred/22050500
Channel 22 Filter E alignment error flag	Boolean	Channel22/FilterE/AlignmentErrorFlag/22050600
Channel 22 Gas W Concentration	Float	Channel22/GasW/Concentration/22060100
Channel 22 Gas W Alarm HH occurred	Boolean	Channel22/GasW/AlarmHHOccurred/22060200
Channel 22 Gas W Alarm H occurred	Boolean	Channel22/GasW/AlarmHOccurred/22060300
Channel 22 Gas W Alarm L occurred	Boolean	Channel22/GasW/AlarmLOccurred/22060400
Channel 22 Gas W Alarm LL occurred	Boolean	Channel22/GasW/AlarmLLOccurred/22060500
Channel 22 Filter W alignment error flag	Boolean	Channel22/FilterW/AlignmentErrorFlag/22060600
Channel 22 Pressure	Float	Channel22/Pressure/22500100
Channel 22 Gas Monitor Air flag	Boolean	Channel22/GasMonitor/Airflag/22500200
Channel 22 Gas Monitor Error flag	Boolean	Channel22/GasMonitor/Errorflag/22500300
Channel 22 Gas Monitor Warning flag	Boolean	Channel22/GasMonitor/Warningflag/22500400
Channel 22 Monitor Display Error Message	String	Channel22/GasMonitor/MonitorDisplayErrorMessage/22500500
Channel 22 Monitor Display Warning Message	String	Channel22/GasMonitor/MonitorDisplayWarningMessage/22500600
Channel 22 Multiplexer error flag	Boolean	Channel22/Multiplexer/errorflag/22600100
Channel 22 Multiplexer warning flag	Boolean	Channel22/Multiplexer/warningflag/22600200
Channel 22 Multiplexer error number	Long	Channel22/Multiplexer/errornumber/22600300
Channel 22 Multiplexer warning number	Long	Channel22/Multiplexer/warningnumber/22600400
Channel 22 Multiplexer Error Description	String	Channel22/Multiplexer/ErrorDescription/22600600
Channel 22 Multiplexer Warning Description	String	Channel22/Multiplexer/WarningDescription/22600700
Channel 23 Gas A Concentration	Float	Channel23/GasA/Concentration/23010100
Channel 23 Gas A Alarm HH occurred	Boolean	Channel23/GasA/AlarmHHOccurred/23010200
Channel 23 Gas A Alarm H occurred	Boolean	Channel23/GasA/AlarmHOccurred/23010300
Channel 23 Gas A Alarm L occurred	Boolean	Channel23/GasA/AlarmLOccurred/23010400
Channel 23 Gas A Alarm LL occurred	Boolean	Channel23/GasA/AlarmLLOccurred/23010500
Channel 23 Filter A alignment error flag	Boolean	Channel23/FilterA/AlignmentErrorFlag/23010600
Channel 23 Gas B Concentration	Float	Channel23/GasB/Concentration/23020100
Channel 23 Gas B Alarm HH occurred	Boolean	Channel23/GasB/AlarmHHOccurred/23020200
Channel 23 Gas B Alarm H occurred	Boolean	Channel23/GasB/AlarmHOccurred/23020300
Channel 23 Gas B Alarm L occurred	Boolean	Channel23/GasB/AlarmLOccurred/23020400
Channel 23 Gas B Alarm LL occurred	Boolean	Channel23/GasB/AlarmLLOccurred/23020500
Channel 23 Filter B alignment error flag	Boolean	Channel23/FilterB/AlignmentErrorFlag/23020600
Channel 23 Gas C Concentration	Float	Channel23/GasC/Concentration/23030100
Channel 23 Gas C Alarm HH occurred	Boolean	Channel23/GasC/AlarmHHOccurred/23030200
Channel 23 Gas C Alarm H occurred	Boolean	Channel23/GasC/AlarmHOccurred/23030300
Channel 23 Gas C Alarm L occurred	Boolean	Channel23/GasC/AlarmLOccurred/23030400
Channel 23 Gas C Alarm LL occurred	Boolean	Channel23/GasC/AlarmLLOccurred/23030500
Channel 23 Filter C alignment error flag	Boolean	Channel23/FilterC/AlignmentErrorFlag/23030600
Channel 23 Gas D Concentration	Float	Channel23/GasD/Concentration/23040100
Channel 23 Gas D Alarm HH occurred	Boolean	Channel23/GasD/AlarmHHOccurred/23040200
Channel 23 Gas D Alarm H occurred	Boolean	Channel23/GasD/AlarmHOccurred/23040300
Channel 23 Gas D Alarm L occurred	Boolean	Channel23/GasD/AlarmLOccurred/23040400
Channel 23 Gas D Alarm LL occurred	Boolean	Channel23/GasD/AlarmLLOccurred/23040500
Channel 23 Filter D alignment error flag	Boolean	Channel23/FilterD/AlignmentErrorFlag/23040600

Channel 23 Gas E Concentration  Channel 23 Gas E Alarm HH occurred  Boolean  Channel 23/GasE/AlarmHHOccurred/23050200  Channel 23 Gas E Alarm H occurred  Boolean  Channel 23/GasE/AlarmHOccurred/23050300  Channel 23 Gas E Alarm L occurred  Boolean  Channel 23/GasE/AlarmLOccurred/23050400  Channel 23 Gas E Alarm LL occurred  Boolean  Channel 23/GasE/AlarmLOccurred/23050500  Channel 23 Filter E alignment error flag  Boolean  Channel 23/FilterE/AlignmentErrorFlag/23050600  Channel 23 Gas W Concentration  Float  Channel 23/GasW/Concentration/23060100  Channel 23 Gas W Alarm HH occurred  Boolean  Channel 23/GasW/AlarmHHOccurred/23060200  Channel 23 Gas W Alarm H occurred  Boolean  Channel 23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean  Channel 23/GasW/AlarmLOccurred/23060400  Channel 23 Gas W Alarm LL occurred  Boolean  Channel 23/GasW/AlarmLOccurred/23060500	
Channel 23 Gas E Alarm H occurred  Boolean  Channel23/GasE/AlarmHOccurred/23050300  Channel 23 Gas E Alarm L occurred  Boolean  Channel23/GasE/AlarmLOccurred/23050400  Channel 23 Gas E Alarm LL occurred  Boolean  Channel23/GasE/AlarmLLOccurred/23050500  Channel 23 Filter E alignment error flag  Boolean  Channel23/FilterE/AlignmentErrorFlag/23050600  Channel 23 Gas W Concentration  Float  Channel23/GasW/Concentration/23060100  Channel 23 Gas W Alarm HH occurred  Boolean  Channel23/GasW/AlarmHHOccurred/23060200  Channel 23 Gas W Alarm H occurred  Boolean  Channel23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean  Channel23/GasW/AlarmHOccurred/23060400	
Channel 23 Gas E Alarm L occurred  Boolean  Channel23/GasE/AlarmLOccurred/23050400  Channel 23 Gas E Alarm LL occurred  Boolean  Channel23/GasE/AlarmLLOccurred/23050500  Channel 23 Filter E alignment error flag  Boolean  Channel23/FilterE/AlignmentErrorFlag/23050600  Channel 23 Gas W Concentration  Float  Channel23/GasW/Concentration/23060100  Channel 23 Gas W Alarm HH occurred  Boolean  Channel23/GasW/AlarmHHOccurred/23060200  Channel 23 Gas W Alarm H occurred  Boolean  Channel23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean  Channel23/GasW/AlarmLOccurred/23060400	
Channel 23 Gas E Alarm LL occurred  Boolean  Channel 23/GasE/AlarmLLOccurred/23050500  Channel 23 Filter E alignment error flag  Boolean  Channel 23/Filter E/AlignmentErrorFlag/23050600  Channel 23 Gas W Concentration  Channel 23 Gas W Alarm HH occurred  Boolean  Channel 23/GasW/Concentration/23060100  Channel 23 Gas W Alarm HH occurred  Boolean  Channel 23/GasW/AlarmHHOccurred/23060200  Channel 23 Gas W Alarm H occurred  Boolean  Channel 23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean  Channel 23/GasW/AlarmLOccurred/23060400	
Channel 23 Filter E alignment error flagBooleanChannel23/FilterE/AlignmentErrorFlag/23050600Channel 23 Gas W ConcentrationFloatChannel23/GasW/Concentration/23060100Channel 23 Gas W Alarm HH occurredBooleanChannel23/GasW/AlarmHHOccurred/23060200Channel 23 Gas W Alarm H occurredBooleanChannel23/GasW/AlarmHOccurred/23060300Channel 23 Gas W Alarm L occurredBooleanChannel23/GasW/AlarmLOccurred/23060400	
Channel 23 Gas W ConcentrationFloatChannel23/GasW/Concentration/23060100Channel 23 Gas W Alarm HH occurredBooleanChannel23/GasW/AlarmHHOccurred/23060200Channel 23 Gas W Alarm H occurredBooleanChannel23/GasW/AlarmHOccurred/23060300Channel 23 Gas W Alarm L occurredBooleanChannel23/GasW/AlarmLOccurred/23060400	
Channel 23 Gas W Alarm HH occurred  Channel 23 Gas W Alarm H occurred  Boolean  Channel 23/GasW/AlarmHOccurred/23060200  Channel 23 Gas W Alarm L occurred  Boolean  Channel 23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean  Channel 23/GasW/AlarmLOccurred/23060400	
Channel 23 Gas W Alarm H occurred  Boolean Channel23/GasW/AlarmHOccurred/23060300  Channel 23 Gas W Alarm L occurred  Boolean Channel23/GasW/AlarmLOccurred/23060400	
Channel 23 Gas W Alarm L occurred Boolean Channel 23/Gas W/Alarm LOccurred/23060400	
Channel 23 Gas W Alarm LL occurred Boolean Channel 23/Gas W/Alarm LL occurred/23060500	
Channel 23 Filter W alignment error flag  Boolean Channel 23/Filter W/Alignment Error Flag/23060600	
Channel 23 Pressure Float Channel 23/Pressure/23500100	
Channel 23 Gas Monitor Air flag  Boolean  Channel 23/Gas Monitor/Air flag/23500200	
Channel 23 Gas Monitor Error flag  Boolean  Channel 23/Gas Monitor/Errorflag/23500300	
Channel 23 Gas Monitor Warning flag  Boolean Channel23/GasMonitor/Warningflag/23500400	
Channel 23 Monitor Display Error Message String Channel 23/GasMonitor/MonitorDisplayErrorMessage/235005	
Channel 23 Monitor Display Warning Message   String   Channel 23 (Gas Monitor Monitor Display Warning Message / 2350	0600
Channel 23 Multiplexer error flag  Boolean Channel 23/Multiplexer/errorflag/23600100	
Channel 23 Multiplexer warning flag Boolean Channel 23/Multiplexer/warningflag/23600200	
Channel 23 Multiplexer error number Long Channel 23/Multiplexer/errornumber/23600300	
Channel 23 Multiplexer warning number Long Channel23/Multiplexer/warningnumber/23600400	
Channel 23 Multiplexer Error Description String Channel 23/Multiplexer/Error Description/23600600	
Channel 23 Multiplexer Warning Description String Channel 23/Multiplexer/WarningDescription/23600700	
Channel 24 Gas A Concentration Float Channel 24/Gas A/Concentration/24010100	
Channel 24 Gas A Alarm HH occurred Boolean Channel24/GasA/AlarmHHOccurred/24010200	
Channel 24 Gas A Alarm H occurred Boolean Channel24/GasA/AlarmHOccurred/24010300	
Channel 24 Gas A Alarm L occurred Boolean Channel24/GasA/AlarmLOccurred/24010400	
Channel 24 Gas A Alarm LL occurred Boolean Channel 24/Gas A/Alarm LL Occurred/24010500	
Channel 24 Filter A alignment error flag Boolean Channel24/FilterA/AlignmentErrorFlag/24010600	
Channel 24 Gas B Concentration Float Channel 24/Gas B/Concentration/24020100	
Channel 24 Gas B Alarm HH occurred Boolean Channel24/GasB/AlarmHHOccurred/24020200	
Channel 24 Gas B Alarm H occurred Boolean Channel24/GasB/AlarmHOccurred/24020300	
Channel 24 Gas B Alarm L occurred Boolean Channel24/GasB/AlarmLOccurred/24020400	
Channel 24 Gas B Alarm LL occurred Boolean Channel24/GasB/AlarmLLOccurred/24020500	
Channel 24 Filter B alignment error flag Boolean Channel24/FilterB/AlignmentErrorFlag/24020600	
Channel 24 Gas C Concentration Float Channel 24/Gas C/Concentration/24030100	
Channel 24 Gas C Alarm HH occurred Boolean Channel24/GasC/AlarmHHOccurred/24030200	
Channel 24 Gas C Alarm H occurred Boolean Channel24/GasC/AlarmHOccurred/24030300	
Channel 24 Gas C Alarm L occurred Boolean Channel 24/Gas C/Alarm LOccurred/24030400	
Channel 24 Gas C Alarm LL occurred Boolean Channel24/GasC/AlarmLLOccurred/24030500	
Channel 24 Filter C alignment error flag Boolean Channel 24/Filter C/Alignment Error Flag/24030600	
Channel 24 Gas D Concentration Float Channel 24/Gas D/Concentration/24040100	
Channel 24 Gas D Alarm HH occurred Boolean Channel 24/Gas D/Alarm HHOccurred/24040200	
Channel 24 Gas D Alarm H occurred Boolean Channel 24/Gas D/Alarm HOccurred/24040300	
Channel 24 Gas D Alarm L occurred Boolean Channel 24/Gas D/Alarm LOccurred/24040400	
Channel 24 Gas D Alarm LL occurred Boolean Channel 24/Gas D/Alarm LL Occurred/24040500	
Channel 24 Filter D alignment error flag Boolean Channel 24/Filter D/Alignment Error Flag/24040600	
Channel 24 Gas E Concentration Float Channel 24/GasE/Concentration/24050100	
Channel 24 Gas E Alarm HH occurred Boolean Channel24/GasE/AlarmHHOccurred/24050200	
Channel 24 Gas E Alarm H occurred Boolean Channel24/GasE/AlarmHOccurred/24050300	
Channel 24 Gas E Alarm L occurred Boolean Channel24/GasE/AlarmLOccurred/24050400	

Channel 24 Gas E Alarm LL occurred	Boolean	Channel24/GasE/AlarmLLOccurred/24050500
Channel 24 Filter E alignment error flag	Boolean	Channel24/FilterE/AlignmentErrorFlag/24050600
Channel 24 Gas W Concentration	Float	Channel24/GasW/Concentration/24060100
Channel 24 Gas W Alarm HH occurred	Boolean	Channel24/GasW/AlarmHHOccurred/24060200
Channel 24 Gas W Alarm H occurred	Boolean	Channel24/GasW/AlarmHOccurred/24060300
Channel 24 Gas W Alarm L occurred	Boolean	Channel24/GasW/AlarmLOccurred/24060400
Channel 24 Gas W Alarm LL occurred	Boolean	Channel24/GasW/AlarmLLOccurred/24060500
Channel 24 Filter W alignment error flag	Boolean	Channel24/FilterW/AlignmentErrorFlag/24060600
Channel 24 Pressure	Float	Channel24/Pressure/24500100
Channel 24 Gas Monitor Air flag	Boolean	Channel24/GasMonitor/Airflag/24500200
Channel 24 Gas Monitor Error flag	Boolean	Channel24/GasMonitor/Errorflag/24500300
Channel 24 Gas Monitor Warning flag	Boolean	Channel24/GasMonitor/Warningflag/24500400
Channel 24 Monitor Display Error Message	String	Channel24/GasMonitor/MonitorDisplayErrorMessage/24500500
Channel 24 Monitor Display Warning Message	String	Channel24/GasMonitor/MonitorDisplayWarningMessage/24500600
Channel 24 Multiplexer error flag	Boolean	Channel24/Multiplexer/errorflag/24600100
Channel 24 Multiplexer warning flag	Boolean	Channel24/Multiplexer/warningflag/24600200
Channel 24 Multiplexer error number	Long	Channel24/Multiplexer/errornumber/24600300
Channel 24 Multiplexer warning number	Long	Channel24/Multiplexer/warningnumber/24600400
Channel 24 Multiplexer Error Description	String	Channel24/Multiplexer/ErrorDescription/24600600
Channel 24 Multiplexer Warning Description	String	Channel24/Multiplexer/WarningDescription/24600700
Charmer 24 Multiplexer Warning Description		· · · · · · · · · · · · · · · · · · ·
11.5		IP Parameters
Unit gas concentration	String	Setup/Unit/GasConcentration/50010100
Unit Water vapour	String	Setup/Unit/WaterVapour/50010200
Unit pressure	String	Setup/Unit/Pressure/50010300
Unit Temp	String	Setup/Unit/Temp/50010400
Unit length	String	Setup/Unit/Length/50010500
Unit time	String	Setup/Unit/Time/50010600
Gas A name	String	Setup/Name/GasA/50020100
Gas B name	String	Setup/Name/GasB/50020200
Gas C name	String	Setup/Name/GasC/50020300
Gas D name	String	Setup/Name/GasD/50020400
Gas E name	String	Setup/Name/GasE/50020500
Gas A Molecular weight	Float	Setup/MolecularWeight/GasA/50030100
Gas B Molecular weight	Float	Setup/MolecularWeight/GasB/50030200
Gas C Molecular weight	Float	Setup/MolecularWeight/GasC/50030300
Gas D Molecular weight	Float	Setup/MolecularWeight/GasD/50030400
Gas E Molecular weight	Float	Setup/MolecularWeight/GasE/50030500
Gas A SIT	Float	Setup/SIT/GasA/50040100
Gas B SIT	Float	Setup/SIT/GasB/50040200
Gas C SIT	Float	Setup/SIT/GasC/50040300
Gas D SIT	Float	Setup/SIT/GasD/50040400
Gas E SIT	Float	Setup/SIT/GasE/50040500
Gas W SIT	Float	Setup/SIT/GasW/50040600
Normalisation temperature	Float	Setup/Temperature/Normalisation/50050100
Humidity interference compensation	Boolean	Setup/Compensation/HumidityInterference/50060100
Cross compensation	Boolean	Setup/Compensation/Cross/50060200
Flushing mode	String	Setup/Flushing/Mode/50070100
Tube length	Float	Setup/Flushing/TubeLength/50070200
Chamber Flushing Time	Long	Setup/Flushing/ChamberFlushTime/50070300
Tube Flushing Time	Long	Setup/Flushing/TubeFlushTime/50070400
NumberOfConnected 1309 multiplexers	Long	Setup/NumberOfConnectedMultiplexers/1309/50090100
NumberOfConnected 1303 multiplexers	Long	Setup/NumberOfConnectedMultiplexers/1303/50090200

Tags for reading last measurement in Gas Monitor		
LastMeasuredSampleChannel	Long	General/LastMeasuredSampleChannel/600500

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