

# **Technical Documentation**

## **BZ6005 PMV Calculating Program.**

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#### Introduction.

BZ6005 is a userprogram for 7301 Application Software for Type 1221. The program calculates Offset and Scale Factors for the PMV analogue readout when values for MET, CLO and Water vapour are selected.

#### Software requirement.

- Operative system : Windows 98, Windows Me, Windows NT 4.0, Windows 2000
- ◆ 7301: Version 3.20

#### Installation.

The installation will start automatically. If the installation do not start, double-Click on the set-up icon on the CD-ROM.

When 7301 is started the next time it will automatically include the new functions of BZ6005.



### **Operation.**

Follow the set-up procedure as described in the User Manual for Type 1221, BA5138 Chapter 5.

Connect the analogue output to UA1346 according to the description in section 5.3.4. The transducer Settings dialogue box for the analogue output appears ( see figure 5.8 page 5-10 in the User Manual ).

Select Analogue Output in the lower left corner.

The dialogue box Select Value From a Transducer appears( see figure 1 below ).

Select Value F	rom a Transdu	cer	×
Enter name of	foutput	Min Max Standard Dev Averaged Instantaneous	
Module 3 - P None	lug 1 - 1 Dry Heat Lo	220	<u> </u>
Module 3 - H	lug 1 - 1 Dry Heat Li	088	
Output (V)	= Scale * (Value - C	Offset)	
Offeet	0		ОК
Onsec			

Figure 1: Select value From a Transducer Dialogue box.

Select the dry heat loss transducer as shown in figure 1. Press the calculate factors button. The dialogue box for the PMV calculating program Type BZ6005 appears, see figure 2.



PMV Calculating Program Type BZ6005		
Calculating Offset and Scale factor readout	ors for analogue PMV	
Select MET:	Output-	
0.8	-5 PMV = 0 Volt	
	5 PMV = 5 Volt	
Select CLO Value:		
(not activity corrected) 💌		
Select Water Vapour:		
600.0	Calculate	!

Figure 2: PMV Calculating Program Type BZ6005 Dialogue box.

Select values for MET, CLO and Water vapour from the drop down boxes as shown in figure 3.

Select Value From a Transdu	cer	×
PMV Calculating Program	n Type BZ6005	×
Calculating Offset and Sca readout	le factors for analogue PMV	
Select MET:	-Output	
0.8	-5 PMV = 0 Volt 0 PMV = 5 Volt 5 PMV = 10 Volt	
Select CLO Value:		
0.4		
(not activity corrected)		
0.2		
0.4	<u>Calculate</u>	
0.6		
1.0		
1.5		
2.0		

Figure 3. Drop Down Box to select CLO value.

After selecting the CLO, MET and Water vapour values press the calculate button. Now the off-set and scale values are calculated and inserted in the Select Value from a Transducer dialogue box see figure 4.



Select Value From a Trans	ducer 🔀
Enter name of output	Min Max Standard Dev Averaged
Value	Instantaneous
Module 3 - Plug 1 - 1 Dry He	at Loss
None Module 3 - Plug 1 - 1 Dry He	at Loss
Output [V] = Scale * (Valu	e - Offset)
Offset 85.71	ОК
Scale -0.0848	Calculate Factors

Figure 4: Select Value From a Transducer dialogue box with the calculated values for offset and Scale.

The analogue output is now scaled by these factors : -5 PMV corresponds to 0 V 0 PMV corresponds to 5 V 5 PMV corresponds to 10 V.