

## DPM8180-2 Process Meter (€

### features

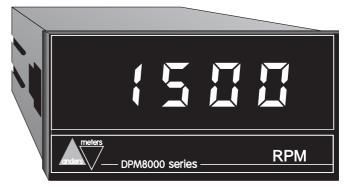
- CE approved and marked
- Large (14.2mm) red LED characters
- Choice of inputs (4-20mA, 10-50mA, 1-5V, 0-10V)
- Engineering read-outs e.g. pressure, flow, level
- Offset and span adjustable
- Adjustable sensor excitation output (5-24V dc)
- Display hold facility

The DPM8180 is a low cost, high performance mains powered signal process panel meter. Engineering units such as pressure, flow, temperature and level can be displayed.

It has an adjustable, 5-24V dc (50mA) excitation supply for powering transmitters and active transducers without the need for an external supply.

User calibration is performed by adjusting DIP switches and multi-turn potentiometers to choose the input format and set the corresponding display values.

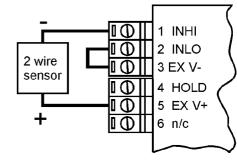
OPERATING SPECIFICATION				
Line voltage	115/230V +10%, -20%			
Line frequency	50/60 Hz			
Accuracy	+/- 0.1% of reading +/- 1 digit			
Temperature coefficient	100 PPM/C			
Operating temperature	0 to 50°C			
Storage temperature	-10 to 60°C			
Humidity	below 85% RH			
Power consumption	6 VA			
CMRR	110dB			



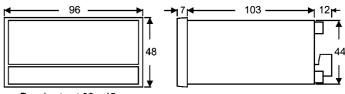
ELECTRICAL SPECIFICATION						
Range	4-20mA	10-50mA	1-5V	0-10V		
Input impedance	10 Ohms	10 Ohms	1 MOhm	1 MOhm		
Maximum input	200mA	200mA	100V	100V		

TERMINAL DEFINITIONS				
TERMINAL	SYMBOL	DESCRIPTION		
1	IN HI	Sensor input signal high		
2	IN LO	Sensor input signal low		
3	EX V-	Excitation voltage -ve o/p		
4	HOLD	Connect to pin 2 to hold display		
5	EX V+	Excitation voltage +ve o/p		
6	n/c	No connection		
7	230V			
8	115V	AC power source		
9	0V			

## FIGURE 2 CONNECTING A 2 WIRE SENSOR

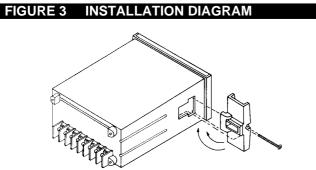


#### FIGURE 4 DIMENSIONS



Panel cut out 92 x 45 mm

# FIGURE 1 FRONT VIEW (COVER REMOVED)

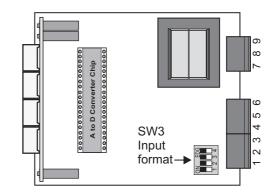


### **STEP BY STEP INSTRUCTIONS**

1		from muchootive m			
	Remove instrument from protective plastic bag and clip off front cover. Note location of components as per fig. 1.				
2	Pull off the three gr	een safety termina	als from the rear of		
	the meter. The complete panel meter assembly can now be removed from its case by carefully levering the base of				
	the LED display board over the plastic retaining lug while				
	pushing gently on the	e terminal ning at	the rear		
3	Select the required i				
5	switches on SW3 ac				
	assembly to the case				
4	Decide the display				
-	point using SW1(1 to				
	<u>NOTE</u> If your displa				
	number of counts (F				
	step 5 below.	,			
5	For your chosen dis	play range, apply	the formulae from		
	the list below, for yo	ur chosen input fo	rmat. For example,		
	for a 4-20mA input a	and display range	of -100 to 500, the		
	lower reading R1 =		the upper reading		
	R2 = 500 (at 20mA).				
	la sut forme at	Offerent firmune (OE)			
	Input format 4-20mA	Offset figure (OF)	Span figure (SF) SF=(R2 - R1)/160		
	4-20MA 10-50mA	OF=(5xR1 - R2)/4 OF=(5xR1 - R2)/4	SF=(R2 - R1)/160 SF=(R2 - R1)/400		
	1-5V	OF = (5xR1 - R2)/4 OF = (5xR1 - R2)/4	SF=(R2 - R1)/400 SF=(R2 - R1)/160		
	0-10V	OF=(3XR1 - R2)/4 OF= -R1	SF=(R2 - R1)/200		
			( )		
-	Note: the offset figur				
6	Using your value for				
	according to Table				
	according to the pola				
7	Using your value fo		itches SW2(1 to 4)		
	according to Table 5.				
8	Make electrical conr	nection to the meter			
-	Make electrical conr the Terminal Definition	nection to the meteon table on page 1			
8 9	Make electrical conr the Terminal Definition Apply an accurate lo	nection to the mete on table on page 1 wer input signal, e	.g. 4mA, and adjust		
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### FIGURE 5 PLAN VIEW SHOWING SWITCH SW3



### Key to tables: 0 = switch OFF position 1 = switch ON position

TABLE 1 INPUT FORMAT SETTING						
	SW3-1 SW3-2 SW3-3 SW3-4					
4-20mA 10-50mA	1	1	0	0		
1 - 5V	0	0	1	0		
0 - 10V	0	0	0	1		

TABLE 2	DECIMAL POINT SELECT SETTINGS			
	SW1-1	SW2-2	SW3-3	
DP1	1	0	0	
DP2	0	1	0	
DP3	0	0	1	

TABLE 3	POLARIT	SELECT
Polarity	SW1-4	
Negative	0	
Positive	1	

TABLE 4 C	OFFSET FI	GURE (OF	) SETTIN	GS
Offset Figure	SW1-5	SW1-6	SW1-7	SW1-8
0 - 199	0	0	0	0
200 - 399	1	0	0	0
400 - 599	0	1	0	0
600 - 799	0	0	1	0
800 - 999	0	0	0	1
1000 - 1199	1	0	0	1
1200 - 1399	0	1	0	1
1400 - 1599	0	0	1	1
1600 - 1799	1	0	1	1
1800 - 1999	0	1	1	1
2000 - 2200	1	1	1	1

TABLE 5 SDAN FIGURE (SE) SETTINGS						
TABLE 5 SPAN FIGURE (SF) SETTINGS						
Span Figure	SW2-1	SW2-2	SW2-3	SW2-4		
0 - 2	0	0	0	0		
2 - 4	1	0	0	0		
4 - 6	0	1	0	0		
6 - 8	0	0	1	0		
8 - 10	0	0	0	1		
10 - 12	1	0	0	1		
12 - 14	0	1	0	1		
14 - 16	0	0	1	1		
16 - 18	1	0	1	1		
18 - 20	0	1	1	1		
20 - 22	1	1	1	1		

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