

3½ Digit Signal Process Panel Meter DPM-81800 and DPM-81801

FEATURES:

- 0.56 inch (14.2mm) digit height, LED display.
- Display hold capability
- First standard 1/8 DIN panel cutout
- Offset and span adjustable
- Decimal point selectable
- Internal selectable for 4-20mA, 10-50mA, 1-5V, 0-10V input range
- Adjustable 5-24VDC/50mA excitation output voltage supply (DPM-81801 only)



GENERAL DESCRIPTION:

The DPM-81800 and 81801 are low cost, high performance signal process panel meter for various engineering units readout such as pressure, flow, temperature and level, an adjustable 5-24VDC excitation output is provided (DPM-81801) for powering transmitters and active transducers to eliminate the need for external power supply.

There are DIP switches and multi-turn potentiometers built-in for offset and span adjust and input range selection. (Meter is shipped both 4-20mA and 10-50mA range preset.)

TERMINAL DEFINITION:

Terminal	Symbol	Description
1	IN HI	Analog Signal Input
2	IN LO	
3	EX V-	Excitation output voltage V-(81801 only)
4	HOLD	Connect to terminal 2(IN LO) to hold the reading
5	EX V+	Excitation output voltage V+(81801 only)
6	220V	AC power source
7	110V	
8	0V	

OPERATION SPECIFICATION:

Line Voltage..... 110/220VA±10%
 Line Frequency..... 50/60 Hz
 Operating Temperature..... 0 to 50 (32 to 122)
 Humidity..... below 85% RH
 Power Consumption..... 6VA
 Temperature Coefficient..... 100 PPM/
 CMRR..... 110dB
 NMRR..... 50dB

ORDERING INFORMATION :

Model	Input Format	Exciting Voltage
DPM-81800	4-20mA,10-50mA,1-5V,0-10V	Non
DPM-81801		5-24V

ELECTRICAL CHARACTERISTICS:

Range.....	4-20mA	10-50mA	1-5V	0-10V
Input Impedance.....	10 ohm	10 ohm	1M ohm	1M ohm
Input Sensitivity.....	10 counts/mA	10 counts/mA	40 counts/V	20 counts/V
Maximum input.....	200mA	200mA	100V	100V
Re-calibration Accuracy.....	±0.1%Rdg±1dgt			

SPAN ADJUST RANGE:

DIP Switch Setting..... 2 to 22
 Potentiometer Trim..... 0 to 2
 Span and Offset Setting Error... ±20%