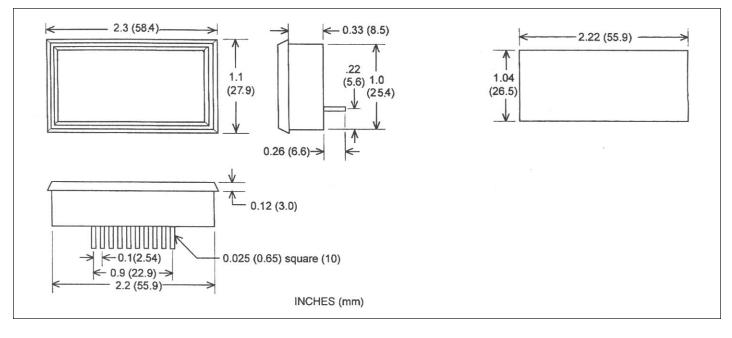


# **DPM-65**

### **Dimensions**



## **Specifications**

Display:

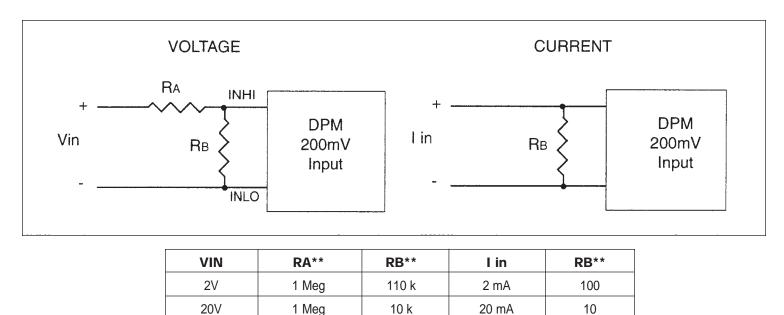
	Digits:	3 1/2 Digits (±1999 counts)
	Туре:	0.39" (10mm) High Contrast Reflective
		LCD
	Polarity:	Automatic, "" displayed
	Decimal Points:	3 Position, user selectable
	Overload:	Three lower order digits blank for
		inputs > 1999 and < - 1999
	Hold:	Display Hold Function is standard
Inputs:		
	Ranges:	$\pm 200.0 \text{mV},~\pm 2.000 \text{V},~\pm 20.00 \text{V}$ DC
		Process Inputs, 4 to 20mA
		(with optional adder board)
	Configuration:	Bipolar, Differential
	Protection:	$\pm 350V$ DC, ( $\pm 100V$ DC on 200mV
		Range)
	Impedance:	>1 Megohm, (>10 Megohm on
		200mV Range)
	Loop Burden:	300Ω nominal @ 20 mA DC (loop
		powered)

Performance:	
Accuracy:	$\pm$ (0.1% +1 count) typical
	$\pm$ (0.2% +2 counts) maximum
Conversion Rate:	3 per second
Normal Mode Rej.:	>30 dB @ 60 Hz
Common Mode Range	: ±1V DC
Common Mode Rej.:	>86 dB
Zero Adjustment:	Automatic
Warmup:	10 minutes typical
Temperature Coeff.:	±100 ppm per °C typical
Environment:	
Operating Range:	0 to 50 °C
Storage Range:	–20 to 70 °C
Power Supply:	
Voltage:	+5V DC (±5%)
Current:	3mA
Mounting:	
	Snap-in Bezel Mount
Process Adder Board:	Plugs onto DPM pins, adds approx. 0.6" (16mm) to depth
Connections:	
connections.	Pins, 0.025" square on 0.1" centers
	Screw terminals on Process Adder Board



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#### **Ranging DPMs for Voltage & Current**



- \* When attentuating voltages above 20V care must be used to use components rated for higher voltages and that proper creepage and clearance distances are used. Refer to UL3111 or IEC 1010.
- \*\* Resistors should be 1%, 1/4 wattt with a 100 or 50 ppm temperature coefficient (Note: Recalibration of span required if accuracy better than ±1.4% is desired.)

1 k

1 k

\*\*\* Use (2) 4.99 Meg in series if 10 Meg is not available.

1 Meg

10 Meg\*\*\*

200V

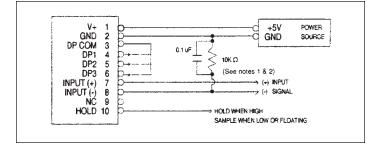
1000V\*

#### **Connection Descriptions**

PIN	Description
V +	+5V DPM Power Supply
GND	DPM Power Supply Ground
DP COM	Decimal Point Return
DP1	1XX.X
DP2	1X.XX
DP3	1.XXX
Input (+)	Positive Input Signal
Input (–)	Negative Input Signal
NC	No Connection Required
HOLD	Hold Last Display

#### **Wiring Connections**

200 mA



1

- 1. Floating Input, DPM65: The input common mode range is  $\pm$  1Vdc. If INPUT (-) is not directly conected to GND, a 10k resistor network can be connected as shown to reduce unstable readings.
- 2. Single-Ended Input, DPM65S: The 10K resistor network is not required. The INPUT (-) is internally connected to GND.

Unused pins should be left open.

CAUTION: Damage to the unit can occur if the power source polarity is reversed, or greater than 6V is applied between pins 1 & 2.

DPM-65