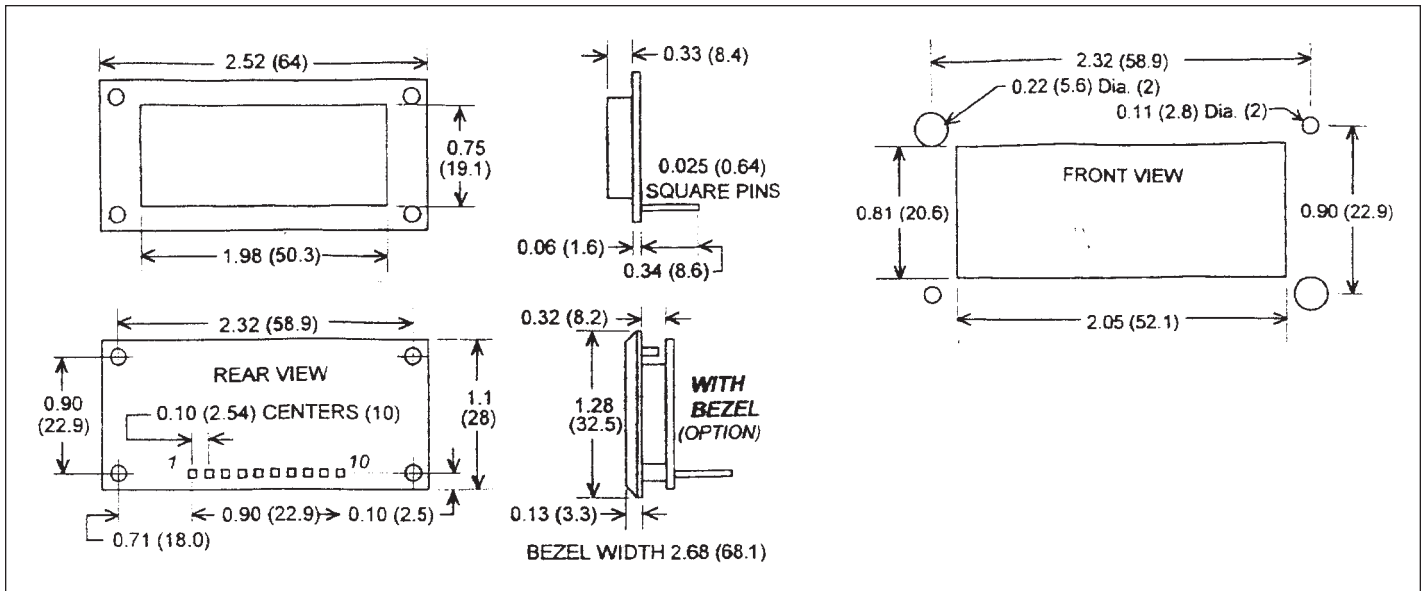


## Dimensions



## Specifications

### Display:

Digits:	3 1/2 Digits ( $\pm 1999$ counts)
Type:	0.56" (14.2mm) Red or Green 7-segment LED
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:	$\pm 200.0$ mV, $\pm 2.000$ V, $\pm 20.00$ V DC Process Inputs, 4 to 20mA (with optional adder board)
Configuration:	Bipolar, Differential
Protection:	$\pm 350$ V DC, ( $\pm 100$ V DC on 200mV Range)
Impedance:	$> 1$ Megohm, ( $> 10$ Megohm on 200mV Range)
Loop Burden:	15 $\Omega$ nominal

### Performance:

Accuracy:	$\pm (0.1\% + 1 \text{ count})$ typical $\pm (0.2\% + 2 \text{ counts})$ maximum
Conversion Rate:	3 per second
Normal Mode Rej.:	$> 30$ dB @ 60 Hz
Common Mode Range:	$\pm 1$ V DC
Common Mode Rej.:	$> 86$ dB
Zero Adjustment:	Automatic
Warmup:	10 minutes typical
Temperature Coeff.:	$\pm 100$ ppm per $^{\circ}\text{C}$ typical

### Environment:

Operating Range:	0 to 50 $^{\circ}\text{C}$
Storage Range:	-20 to 70 $^{\circ}\text{C}$

### Power Supply:

Voltage:	+5V DC ( $\pm 5\%$ )
Current:	200mA

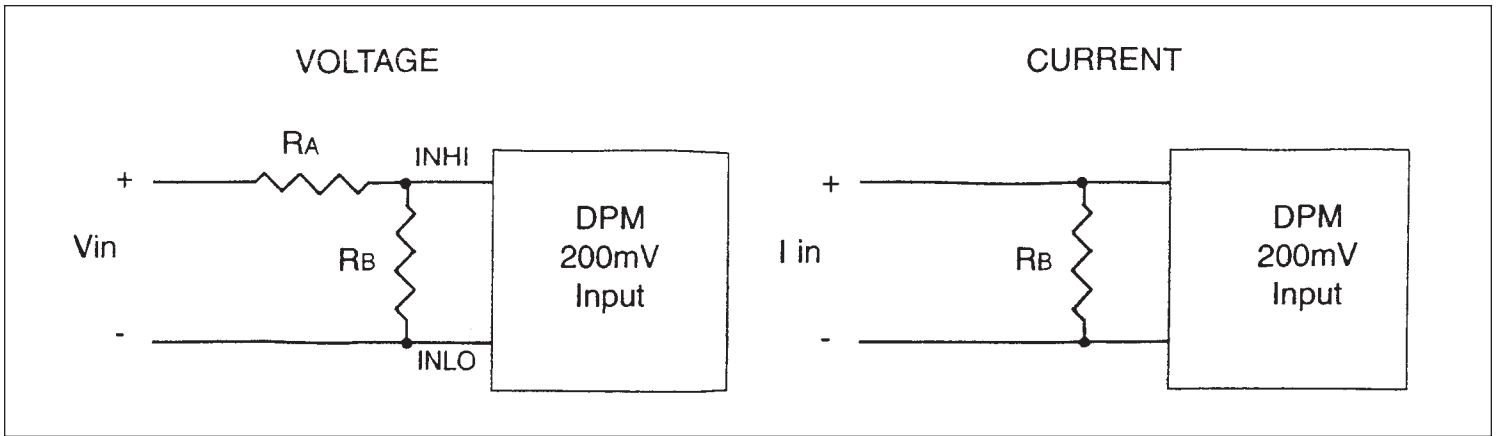
### Mounting:

	Window Mount, or Bezel Mount with optional bezel
Process Adder Board:	Plugs onto DPM pins, adds approx. 0.6" (16mm) to depth

### Connections:

	Pins, 0.025" square on 0.1" centers
	Screw terminals on Process Adder Board

## Ranging DPMs for Voltage & Current



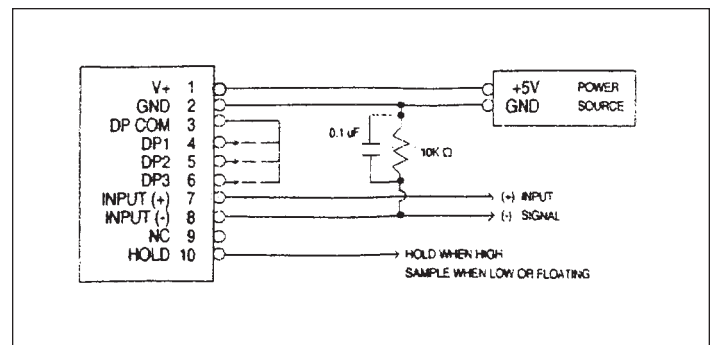
VIN	RA**	RB**	I in	RB**
2V	1 Meg	110 k	2 mA	100
20V	1 Meg	10 k	20 mA	10
200V	1 Meg	1 k	200 mA	1
1000V*	10 Meg***	1 k		

- \* When attenuating 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 watt with a 100 or 50 ppm temperature coefficient (Note: Recalibration of span required if accuracy better than  $\pm 1.4\%$  is desired.)
- \*\*\* Use (2) 4.99 Meg in series if 10 Meg is not available.

## 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



The input common mode range is  $\pm 1\text{Vdc}$ . If INPUT (-) is not directly connected to GND, a 10k resistor network can be connected as shown to reduce unstable readings.

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.