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Martel Electronics
DPM65

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Distributor of Martel Electronics: Excellent Integrated System Limited

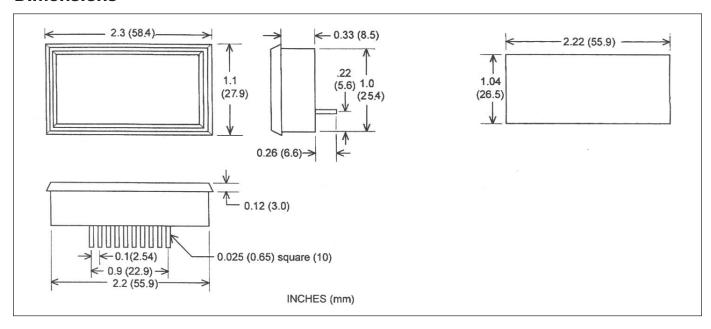
Datasheet of DPM65 - VOLTMETER 20VDC LCD PANEL MOUNT

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



DPM-65

Dimensions



Specifications

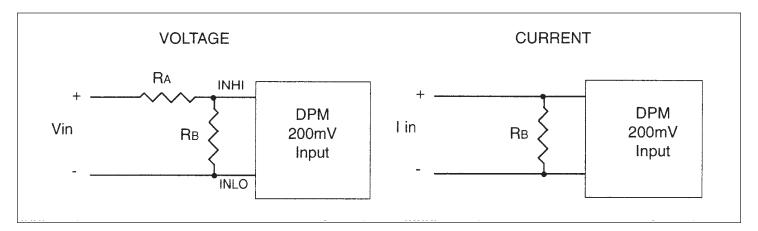
Display:			
	Digits:	3 1/2 Digits (±1999 counts)	
	Type:	0.39" (10mm) High Contrast Reflective	
		LCD	
	Polarity:	Automatic, "-" displayed	
	Decimal Points:	3 Position, user selectable	
	Overload:	Three lower order digits blank for	
		inputs > 1999 and < -1999	
	Hold:	Display Hold Function is standard	
Inputs:			
	Ranges:	±200.0mV, ±2.000V, ±20.00V 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)	
		po,	

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





Ranging DPMs for Voltage & Current



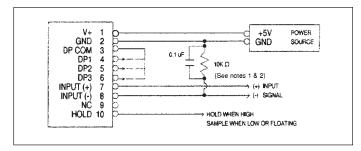
VIN	RA**	RB**	l in	RB**
2V	1 Meg	110 k	2 mA	100
20V	1 Meg	10 k	20 mA	10
200V	1 Meg	1 k	200 mA	1
1000V*	10 Meg***	1 k		

- * When 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.)

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



- 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.

^{***} Use (2) 4.99 Meg in series if 10 Meg is not available.