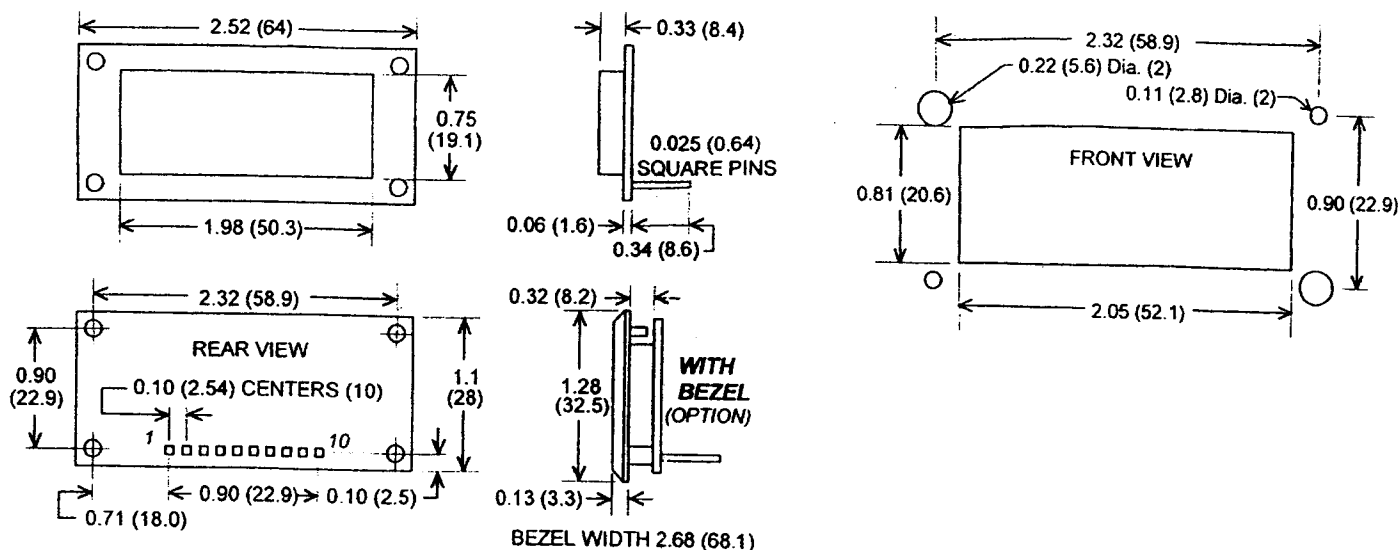


DPM-35

Dimensions



Specifications

Display:	
Digits:	3 1/2 Digits (± 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 & <-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:	$\pm 350\text{V}$ DC, ($\pm 100\text{V}$ DC on 200mV Range)
Impedance:	>1 Megohm, (>10 Megohm on 200mV Range)
Loop Burden:	15 Ω nominal
Performance:	
Accuracy:	$\pm(0.1\% + 1 \text{ counts})$ Typical $\pm(0.2\% + 2 \text{ counts})$ Maximum
Conversion Rate:	3 per Second
Normal Mode Rejection:	$>30 \text{ dB}$ @ 60 Hz
Common Mode Range:	$\pm 1\text{V}$ DC
Common Mode Rej.:	$>86 \text{ dB}$
Zero Adjustment:	Automatic
Warmup:	10 Minutes Typical
Temperature Coeff.:	$\pm 100 \text{ ppm per } ^\circ\text{C}$ 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
Connection:	
	Pins, 0.025" Square on 0.1" centers
	Screw terminals on Process Adder Board

MARTEL ELECTRONICS CORP.

PO Box 770
Londonderry, NH 03053

800-821-0023
623-434-1433
fax: 603-434-1653

www.martelcorp.com

0.32 (8.2)

1.28 (32.5)

0.13 (3.3)

WITH BEZEL (OPTION)

BEZEL WIDTH 2.68 (68.0)

-35inst1 15-JULY-99

DPM 35 Series

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

Pin 10 connection diagram for the ADXL045. Pin 10 is labeled 'HOLD' and has a note: 'HOLD WHEN HIGH SAMPLE WHEN LOW OR FLOATING'. The diagram shows a circuit where Pin 10 is connected to a node between a 0.1 μF capacitor and a 10K ohm resistor. The other end of the capacitor is connected to Pin 1 (V+) and the other end of the resistor is connected to Pin 2 (GND). A separate box labeled '+5V POWER SOURCE' shows connections to Pin 1 (+5V) and Pin 2 (GND). Pins 3 (DP COM), 4 (DP1), 5 (DP2), and 6 (DP3) are shown with dashed lines indicating they are not connected. Pins 7 (INPUT +) and 8 (INPUT -) are shown with dashed lines indicating they are not connected. Pin 9 (NC) is also not connected.

1. **Floating Input:** The input common mode range is ± 1 VDC. If INPUT (-) is not directly connected to GND, a 10K resistor network can be connected as shown to reduce unstable readings.
2. **Single-Ended Input:** 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 a voltage greater than 6V is applied between pins 1 & 2

3.5 DIGIT LCD DPM INSTALLATION SHEET