



HDMO-5 Series

3.5 Digit LCD Panel Meter



Features

- Low-cost, high-performance replacement for many OEM DPMs.
- Optional Red, Green, Amber or Positive Green backlighting.
- Snap-in bezel mount eliminates mounting hardware.
- Resistant to RF and EMI.
- 3 1/2 digits with high-contrast LCD.
- User-selectable, displayed engineering units.

3½ Digit LCD

Specifications

Display

Digits: 3 ½ digits (± 1999 counts)
Type: 0.45" (11.4 mm) 7 segment LCD
Backlighting: Optional Red Negative (red numbers/black background)
Optional Green Negative (green numbers/ black background)
Optional Amber Negative (amber numbers/ black background)
Optional Green Positive (black numbers / green background)

Polarity: automatic, "-" displayed
Annunciators: °F, °C, PSI, %, user-selectable
Decimal Points: 3 position, user-selectable
Overrange: three lower order digits blank for inputs >1999

Inputs

Ranges: ± 200.0 mV, ± 2.000 V, ± 20.00 VDC
Configuration: bipolar, differential
Protection: ± 350 VDC, (± 100 VDC on 200 mV range)
Impedance: 1000 M Ω on ± 200 mV;
(1 M Ω on 2 V & 20 V range)
Bias Current: 1 pA (± 200 mV) , 100 pA (other ranges)

Performance

Accuracy: $\pm (0.1\% \text{ fs} + 2 \text{ count})$
Conversion Rate: 3 per second
Normal Mode Rejection: >30 dB @ 60 Hz
Common Mode Range: ± 1 VDC max
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: -10 to 70 °C

Power Supply

Voltage: 5 VDC at 3.5 mA max
Optional Backlight: 24 VDC at 35 mA,
5 VDC at 130 mA typical

Mounting snap-in bezel mount

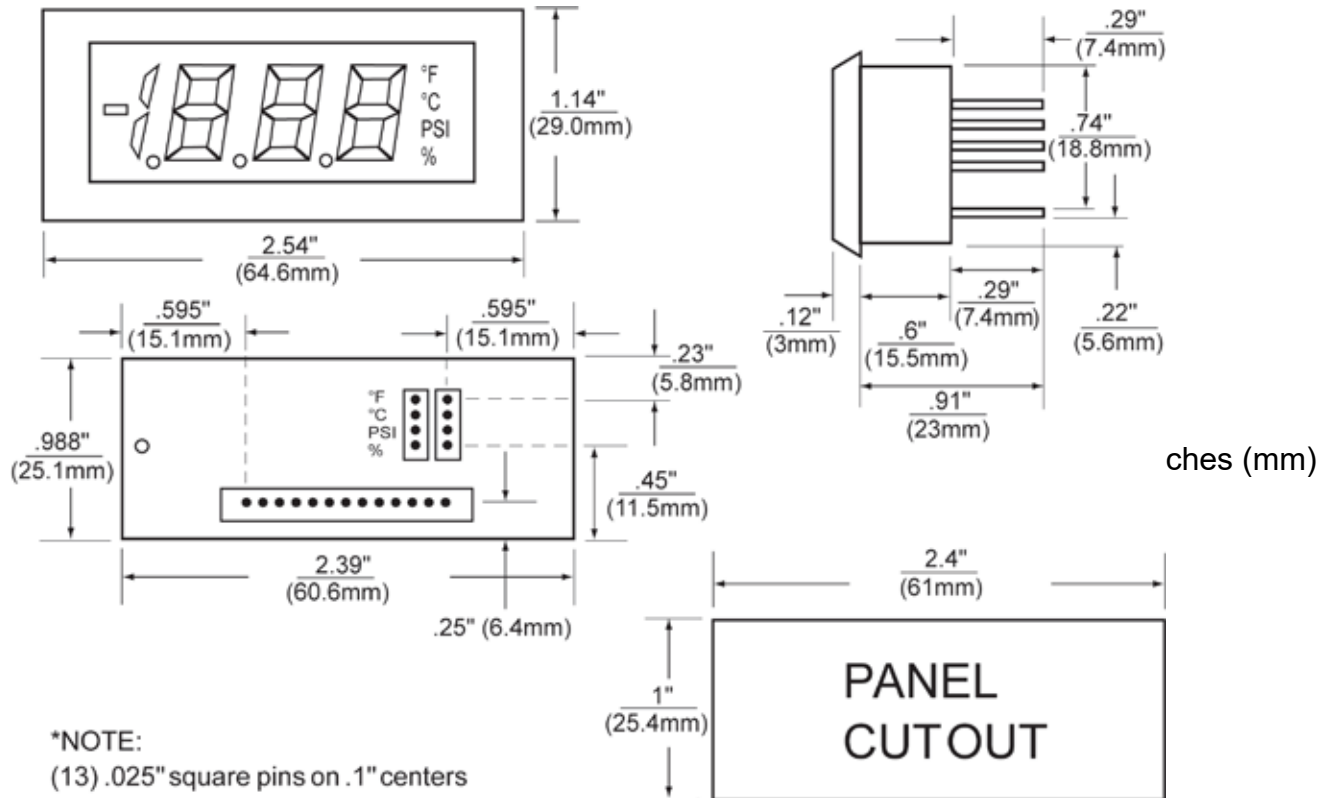
Connection 13 pins, 0.025" square



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Dimensions



Wiring

Pin #	Pin Name	Description
1	+5V	+5v Power Supply
2	NEG	Power Supply Ground
3	INH1	Positive Input Signal
4	INLO	Negative Input Signal
5	COM	Decimal Common
6	000.0	000.0 When Connected To Decimal Common
7	00.00	00.00 When Connected To Decimal Common
8	0.000	0.000 When Connected To Decimal Common
9	NC	No Connection Required
10	NC	No Connection Required
11	NC	No Connection Required
12	BLV+	Backlight V+ (Backlit Models Only)
13	BLV-	Backlight V- (Backlit Models Only)

Note: Pins 2 & 4 should be tied together for proper operation



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Ordering Information

Part Number	Backlight Color	Meter Input	Backlight Power
HDMO-541	NO BACKLIGHT	200mV	NONE
HDMO-542	NO BACKLIGHT	2V	NONE
HDMO-543	NO BACKLIGHT	20V	NONE
HDMO-551	NEG AMBER	200mV	5VDC
HDMO-552	NEG AMBER	2V	5VDC
HDMO-553	NEG AMBER	20V	5VDC
HDMO-554	NEG AMBER	200mV	24VDC
HDMO-561	NEG GREEN	200mV	5VDC
HDMO-562	NEG GREEN	2V	5VDC
HDMO-563	NEG GREEN	20V	5VDC
HDMO-564	NEG GREEN	200mV	24VDC
HDMO-571	NEG RED	200mV	5VDC
HDMO-572	NEG RED	2V	5VDC
HDMO-573	NEG RED	20V	5VDC
HDMO-574	NEG RED	200mV	24VDC
HDMO-581	POS GREEN	200mV	5VDC
HDMO-582	POS GREEN	2V	5VDC
HDMO-583	POS GREEN	20V	5VDC
HDMO-584	POS GREEN	200mV	24VDC

Accessories

J4C13	13 Pin Connector / Wire Assembly
PW2-5	Regulated 120V AC to 5V DC Power Supply
PW2-24	Regulated 120V AC to 24V DC Power Supply
CVC	Calibrator