



HDMO-7 Series

4.5 LCD Digital Panel Meter



EPIC Series - 4½ Digit LCD

Specifications

Display

Digits: 4 ½ digits (±19999 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: 4 position, user-selectable
 Overrange: four lower order digits blank for inputs >19999

Inputs

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

Performance

Accuracy: ± (0.1% fs + 2 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: -20 to 70 °C

Power Supply

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

Mounting

snap-in bezel mount t

Connection

13 pins, 0.025" square

Features

- Low-cost, high-performance DPMs
- Optional RED, GREEN or AMBER backlighting
- Snap-in bezel mount eliminates mounting hardware
- Resistant to RF and EMI
- 4½ digits with high-contrast LCD
- User-selectable, displayed engineering units

Ordering Info

| Part # | Backlight Color | Meter Input | Backlight Power |
|----------|-----------------|-------------|-----------------|
| HDMO-741 | No Backlight | 200mV | None |
| HDMO-742 | No Backlight | 2V | None |
| HDMO-743 | No Backlight | 20V | None |
| HDMO-751 | Neg Amber | 200mV | 5VDC |
| HDMO-752 | Neg Amber | 2V | 5VDC |
| HDMO-753 | Neg Amber | 20V | 5VDC |
| HDMO-754 | Neg Amber | 200mV | 24VDC |
| HDMO-761 | Neg Green | 200mV | 5VDC |
| HDMO-762 | Neg Green | 2V | 5VDC |
| HDMO-763 | Neg Green | 20V | VDC |
| HDMO-764 | Neg Green | 200mV | 24VDC |
| HDMO-771 | Neg Red | 200mV | 5VDC |
| HDMO-772 | Neg Red | 2V | 5VDC |
| HDMO-773 | Neg Red | 20V | 5VDC |
| HDMO-774 | Neg Red | 200mV | 24VDC |
| HDMO-781 | Pos Green | 200mV | 5VDC |
| HDMO-782 | Pos Green | 2V | 5VDC |
| HDMO-783 | Pos Green | 20V | 5VDC |
| HDMO-784 | 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 |

Hoyt Electrical Instrument Works, Inc.

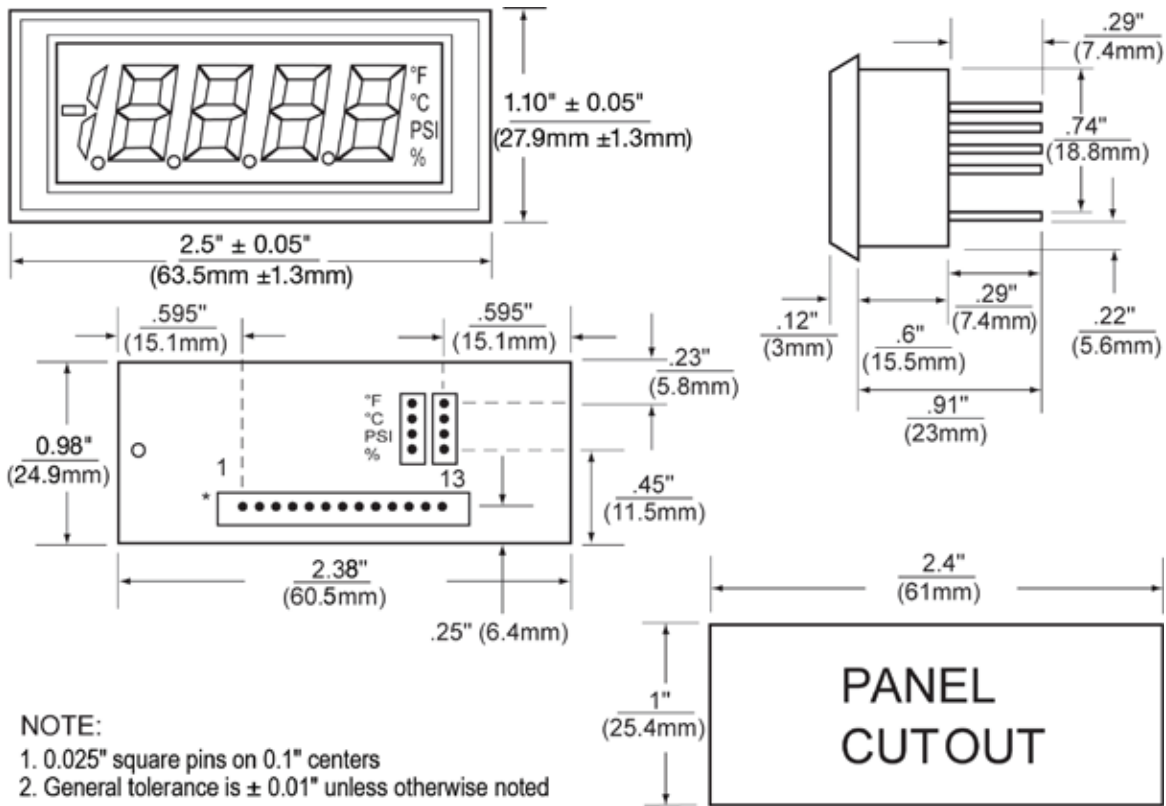
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Dimensions



Connection Description

| Pin # | Pin Name | Description |
|-------|----------|---|
| 1 | +5V | +5V Power Supply |
| 2 | NEG | Power Supply Ground |
| 3 | INHI | Positive Input Signal |
| 4 | INLO | Negative Input Signal |
| 5 | COM | Decimal Common |
| 6 | 0000.0 | 0000.0 when connected to decimal common |
| 7 | 000.00 | 000.00 when connected to decimal common |
| 8 | 00.000 | 00.000 when connected to decimal common |
| 9 | 0.0000 | 0.0000 when connected to decimal common |
| 10 | NC | No Connection Required |
| 11 | SH | Signal Hold When Connected To V+ |
| 12 | BLV+ | B/L V+ (backlit models only) |
| 13 | BLV- | B/L V- (backlit models only) |

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