



2.3" Numeral Multifunction Meter LARGE 3½ Digit LED Display

Features

- Replaces separate display and meter modules
- Optional Red, Green or Blue LED
- Bezel-mount or 180° gimbal mounting in multiple planes
- wall, bench, ceiling or panel mounting
- Resistant to RF and EMI
- Rugged metal case
- 2.3" LED display visible from across the room
- Multifunction loop, set-voltage, adjustable-voltage inputs,
all included
- Isolated AC/DC supply works in many control applications

Ordering Information

Part #	Meter Power	Color
HBDR-999R	90 - 250 VAC	RED
HBDR-999G	90 - 250 VAC	GREEN
HBDR-999B	90 - 250 VAC	BLUE
HBDR-924R	10.5 - 30 VAC/DC	RED
HBDR-924G	10.5 - 30 VAC/DC	GREEN
HBDR-924B	10.5 - 30 VAC/DC	BLUE

Accessories

HCVC	Calibrator
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Specifications

Display

Digits:	3 ½ digits (±1999 counts)
Type:	2.3" (58.4mm) - 7 segment LED red, green or blue digits

Inputs

Set Voltage Ranges:	±200.0 mV, ±2.000 V, ±20.00 VDC
Configuration:	bipolar & differential
Protection:	±350V DC, (±100V DC on 200mV range)
Impedance:	>1 MΩ, (>10 MΩ on 200 mV range)
Adj. Voltage Ranges:	200 mV, 5 V, 10 VDC
Offset Range:	-1999 to +1999
Gain Range:	1 to 1000
4-20mA Loop Ranges:	4 to 20mA DC
Configuration:	bipolar differential
Protection:	±30mA
Loop Impedance:	300Ω nominal

Performance

Accuracy:	±0.1% fs + 1 count)
Conversion Rate:	3 per second
Normal Mode Rejection:	>30 dB @ 60 Hz
Common Mode Rej.:	>86 dB
Zero Adjustment:	automatic on set voltage ranges
Warmup:	10 minutes typical
Temperature Coeff.:	± 100 ppm per °C typical

Environment

Operating Range:	-10 to 50 °C
Storage Range:	-40 to 75 °C

Power Supply

BDR-999:	90 to 250 VAC @ 12 VA
BDR-924:	10.5 to 30 VAC/DC @ 6 VA

Mounting

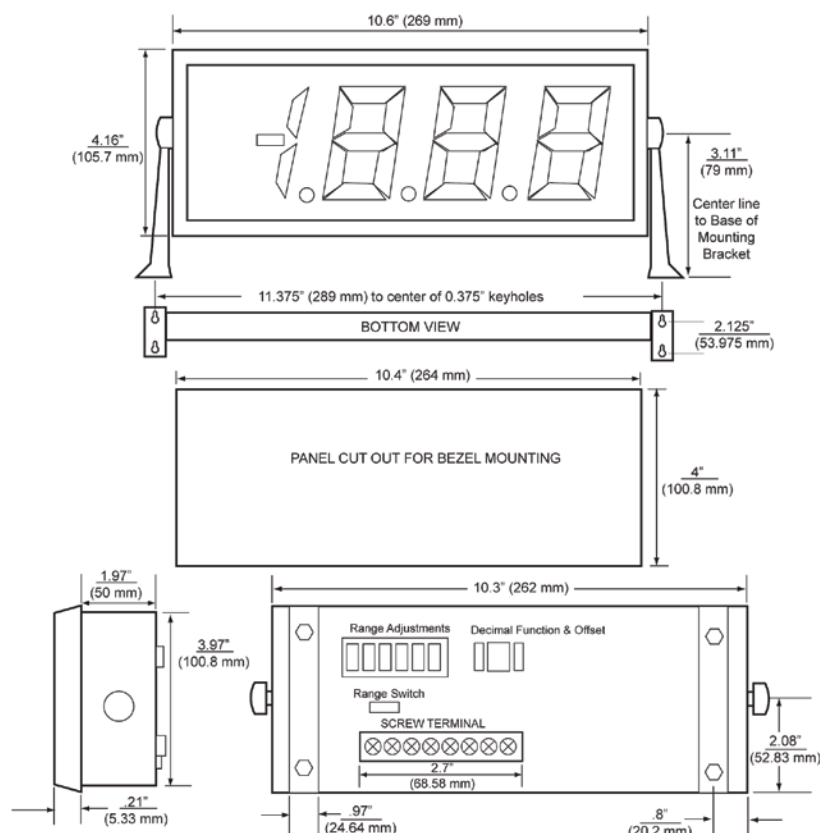
180° gimbal mounting
with 30° stops, or bezel mount

Connection

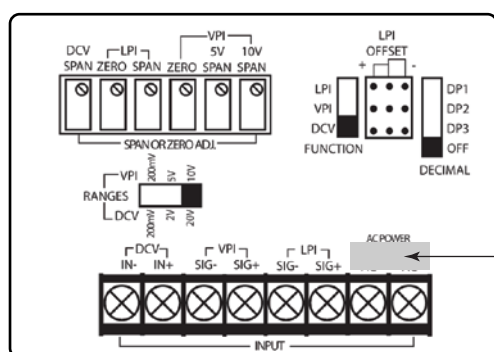
screw terminals



Dimensions



Wiring & Calibration



1. Set function switch in correct position (LPI, VPI, DCV).
2. Set voltage input range switch in correct position (200mV, 2V/5V, 20V/10V).
3. Attach input wires to appropriate screw terminals.
4. Attach power wires to AC/DC power screw terminals.
5. Power unit up.
6. Apply lowest input into meter, adjust correct zero pot for required reading (N/A on DCV function).
7. Apply highest input into meter, adjust correct span pot for required reading.
8. Recheck zero input and adjust again as needed.
9. Check reading at mid-point for required reading.
10. Select appropriate decimal as required on pins 14 & 15.

* LPI OFFSET PIN POSITIONS

In "+" position enables user to have negative zero readings.

In "-" position enables user to have positive zero readings.