

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FEATURES

- ▶ RED, GREEN OR BLUE LED
- ▶ Bezel mount or 180° bracket mounting in multiple planes
- ▶ Resistant to RF and EMI
- ▶ Durable metal case
- ▶ Highly visible 2.3" LED display
- ▶ Multifunction loop, set voltage, adjustable voltage inputs, all included
- ▶ Isolated AC/DC supply works in many control applications



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 mV, ± 2 V, ± 20 VDC
 Configuration: bipolar differential
 Protection: ± 350 VDC, (± 100 VDC on 200 mV range)
 Impedance: >1 M Ω , (>10 M Ω 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: ± 30 mA
 Loop Impedance: 300 Ω nominal

PERFORMANCE

Accuracy: $\pm (0.1\% \text{ fs} + 1 \text{ count})$
 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 $^{\circ}\text{C}$ typical

ENVIRONMENT

Operating Range: -10 to 50 $^{\circ}\text{C}$
 Storage Range: -40 to 75 $^{\circ}\text{C}$

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

ORDERING INFO

PART NUMBER	METER POWER	COLOR
BDR-999R.....	90 - 250 VAC	RED
BDR-999G.....	90 - 250 VAC	GREEN
BDR-999B.....	90 - 250 VAC	BLUE
BDR-924R.....	10.5 - 30 VAC/DC.....	RED
BDR-924G.....	10.5 - 30 VAC/DC.....	GREEN
BDR-924B.....	10.5 - 30 VAC/DC.....	BLUE

ACCESSORIES

CVC Calibrator

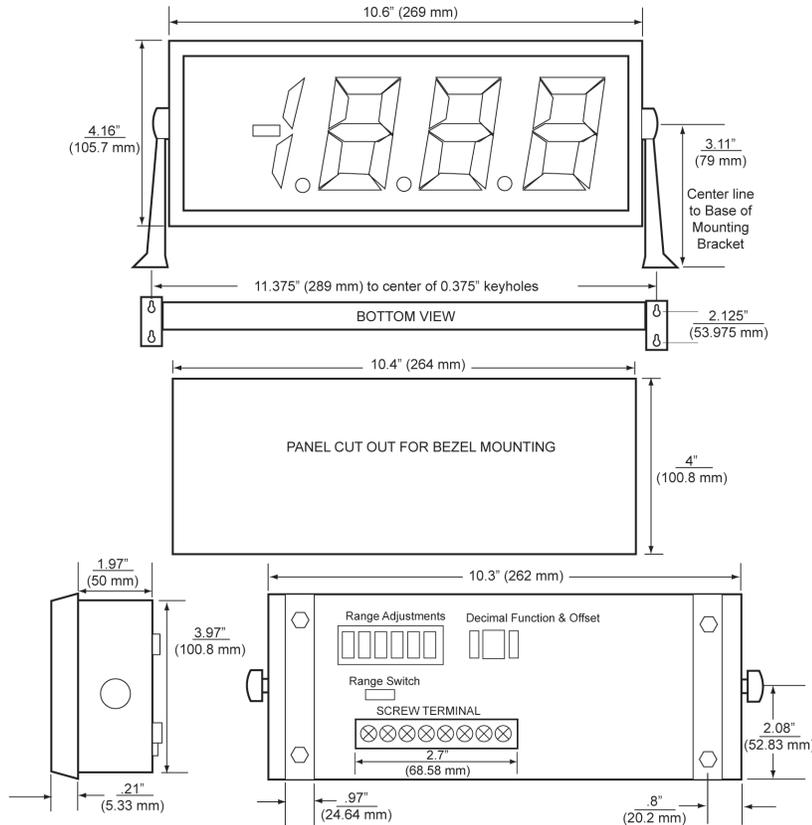


Specifications Installation and Operating Instructions
LED Digital Panel Meters
 2.3" Numeral Multifunction Meter LARGE 3½ Digit LED Display

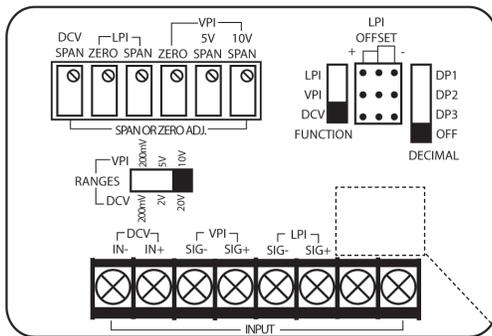
BDR Series



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.

* LPI OFFSET PIN POSITIONS

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

AC POWER
 [90V - 250V]
 AC AC
(BDR-999)

OR

AC POWER
 [10.5V - 30V]
 AC or DC
(BDR-924)