



TEXMATE



0.56" LED Display

BN-45/BN-45I

5V and 9-36V DC Powered
Easily-Scaled
Multirange 2V, 20V & 200V DC
4 1/2 Digit Voltmeter
In Short Depth 2.83" (72 mm)
Compact DIN 96x24mm Case

General Features

The BN-45 is a 4 1/2 digit voltmeter in a compact 96x24 mm case with non-isolated 5VDC power. Another version of the BN-45, the BN-45I with internally isolated 9-36 VDC power, is also available. The case has a short depth of just 2.83 inches (72 mm) behind the panel.

The meter has three user-selectable ranges of 2V, 20V and 200V. The BN-45 may also be calibrated at the factory for these ranges or specially scaled for other ranges (see Ordering Information below).

The display is shipped standard with red LEDs, but green LEDs or super bright LEDs for high ambient light environments are also offered. Display Segments Test, Display Blank and Hold Reading are standard features.

Specifications

Input Configuration:Single-ended, with optional provision to offset the zero of the reading displayed

Input Impedance:Approx. 1M Ω

Input Protection: ± 250 VAC/DC for all range

Full Scale Ranges: ± 1.9999 VDC (standard) ± 19.999 VDC
 ± 199.99 VDC

Conversion Rate:3 readings per second

Accuracy: $\pm (0.05\%$ of reading + 3 counts)

Temperature Coefficient: 10 ppm/ $^{\circ}$ C in ratiometric mode; 50 ppm/ $^{\circ}$ C in 2V ranges

Warmup Time:One minute to specified accuracy

Maximum Resolution:100 μ V in 2V range

Zero Stability:Autozeroed.0.1 counts per $^{\circ}$ C

Display:.....0.56" High efficiency LED's; Display Hold Blank and Test provided

Over-range Indication: ...All digits flash to indicate overrange

BN-45 Power Supply:.....5VDC at 300mA

BN-45I Power Supply:.....9-36V DC at 300mA

Operating Temperature:... 0 $^{\circ}$ C to +60 $^{\circ}$ C

Storage Temperature:-40 to +85 $^{\circ}$ C

Relative Humidity:95% (non-condensing)

Case Dimensions:Bezel 3.62" x 0.95" (96 x 24mm)
Depth behind Bezel 2.23" (56.5mm)
plus 0.49" (12.47mm) for connector.

Weight:85 gms (3.0 oz)
125 gms (4.4 oz) when packed