



# TEXMATE

## BN-45/BN-45I

5V and 9-36V DC Powered  
Easily-Scaled  
Multirange 2V, 20V & 200V DC  
Voltmeter  
External Dimming Function



0.56"  
LED  
Display

Optional ▲  
Green LED display

Optional ▲  
Custom Faceplate

4 1/2 Digit  
In Short Depth 2.83" (72 mm)  
DIN 96x24mm Case

### General Features

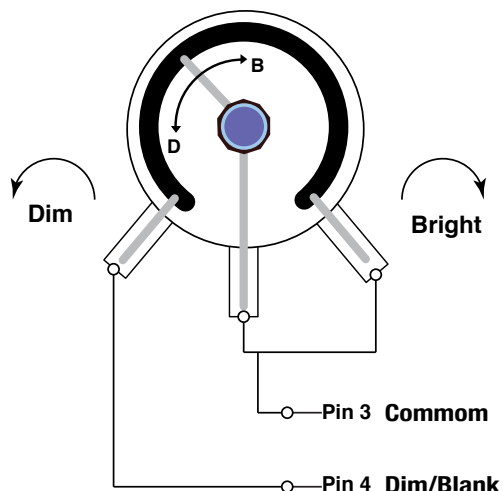
The BN-45 is a 4 1/2 digit voltmeter in a compact 96x24 mm case with non-isolated 5VDC power. Another version of the BN-45, the BN-45I with internally isolated 9-36 VDC power, is also available. The case has a short depth of just 2.83 inches (72 mm) behind the panel.

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.

### External Dimming Connection

1Kohm Potentiometer



### Specifications

- Input Configuration:** ..... Single-ended, with optional provision to offset the zero of the reading displayed
- Input Impedance:** ..... Approx. 1MΩ
- Input Protection:** ..... ±250VAC/DC for all range
- Full Scale Ranges:** ..... ±1.9999VDC (standard) ±19.999VDC  
±199.99VDC
- Conversion Rate:** ..... 3 readings per second
- Accuracy:** ..... ±(0.05% of reading + 3 counts)
- Temperature Coefficient:** 10 ppm/°C in ratiometric mode; 50 ppm/°C in 2V ranges
- Warmup Time:** ..... One minute to specified accuracy
- Maximum Resolution:** ..... 100μV in 2V range
- Zero Stability:** ..... Autozeroed. 0.1 counts per °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°C to +60°C
- Storage Temperature:** ..... -40 to +85°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