

Botron B48282 Technical Data Sheet



Features:

The B48282 is a portable field meter used for detecting and measuring static potentials. Its compact design makes it ideal for fitting in tight spaces. Forward facing LED beams converge to ensure optimal positioning of the meter. Optional charge plate used to measure ionization.

PROPERTIES

SPECIFICATIONS

| | |
|--------------------------|--|
| Display: | LCD |
| Range: | 0 to $\pm 19.99\text{kV}$ @ 1" |
| Accuracy: | $\pm 5\%$ of reading, + zero offset, ± 2 lsd |
| Analog Output Amplitude: | 1V signal denotes 10kV reading at 1" for high impedance loads |
| Response Time: | Typ. 80 - 100 msec 10 - 90% |
| Jack: | 2.5mm monaural phone plug |
| Battery: | 9V |
| Size: | 2.4" x 4.2" x 0.9" |
| Weight: | 5oz |
| Operating Environment: | 0-50°C, 0 85% RH (non-condensing), unaffected by ionized equipment |

PART NUMBERS

B48282 Electrostatic Field Meter

Product Notes and Features

- Pulsing-beam range finder
- Hold button captures transient readings
- Recorder output
- Drift-free accuracy
- Charged plate adapter also available



OPERATION

1. Turn the instrument ON.
2. Discharge your body by touching a grounded metal object.
3. Point the aperture toward a grounded object and press the ZERO button.
4. Aim the aperture toward the target surface at a distance of 1 inch. Adjust the distance until the flashing beams of the LEDs in the instrument converge. Read the voltage and polarity of the charged surface on the meter display.

For additional measurements repeat step four only.

To freeze the display, press the HOLD button. To read the voltages, start at a greater distance to the target as given under specifications.

MAINTENANCE

The battery should be replaced annually, whenever you plan an extended period of unattended monitoring, or whenever "BAT" appears in the display for more than an instant. To obtain accurate and drift free readings the sensor plate and especially the area around the aperture must be kept absolutely clean at all times. Never touch the aperture with anything – not even a cotton swab.