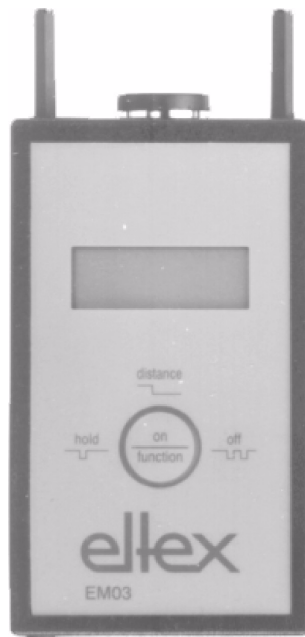


The EM03 Electric Field Meter is a small, compact unit with digital display for measuring static charges directly in Volts. The mode of function of the instrument is based on the influence principle.

When measuring static charges, the distance between the instrument and the object is selectable between 1 and 20 cm.

The integrated micro-computer automatically converts the measured fieldstrength over the pre-selected measuring distance (distance between measured object and measuring electrode) into charges in Volts.

## Technical Information

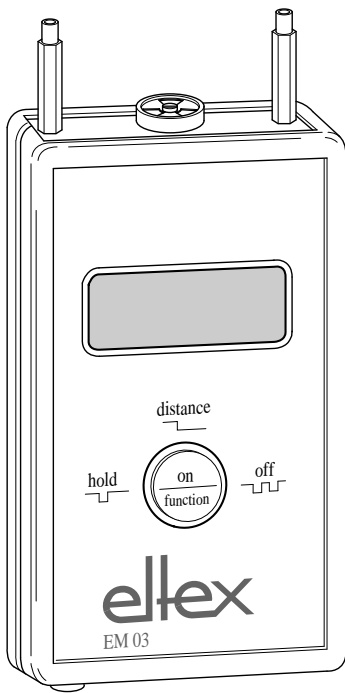


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## Electric Field Meter EM03

TI-en-1020-1111





The electric field meter is a parametric amplifier. The charges influenced by the electrical field generate an alternating current proportional to the field strength. This alternating current is measured via a selective amplifier without drawing time-averaged energy from the electrical field. No radioactive substances are used in the instrument.

The instrument is encased in an anti-static plastic housing with membrane front plate.

The star-shaped influence measuring electrode is built into an aluminium front plate. A modulation wind mill-type wheel of the same star shape, connected to frame, rotates a short distance ahead of the electrode.

A ring electrode system enclosing the influence electrode serves as mechanical protection.

#### Electric Field Meter EM03 including:

- 1 Electric Field Meter EM03
- 1 Coiled cable for ground connection, 2 meters, with split plug and alligator clip
- 1 9 V-Ni-MH-battery pack
- 1 Battery charger
- 1 Instrument case
- 1 Operating instructions
- 1 Works calibration certificate

### Technical Specifications, Electrical Field Meter EM03

Measuring ranges	-10 kV...0...+10 kV, max. resolution 1 V
Measuring distances 1cm	-20 kV...0...+20 kV, max. resolution 2 V
Measuring distances 2 cm	-50 kV...0...+50 kV, max. resolution 5 V
Measuring distances 5 cm	-100 kV...0...+100 kV, max. resolution 10 V
Measuring distances 10 cm	-200 kV...0...+200 kV, max. resolution 20 V
Measuring distances 20 cm	
Housing	antistatic plastic with membrane front panel
Protection class	IP 40
Dimensions	114 x 68 x 25 mm (L x W x H) 141 mm with spacer and grounding socket
Weight	175 g (with battery)
Sensor	star-shaped influence measuring electrode
Display	2-line alphanumerical LCD, 2 x 12 digits
Batteries	9 V alkaline or lithium block battery Type IEC 6F22 or Ni-Cd- or Ni-MH batteries
Operating period	approx. 10 hours continuous operation
Measurement system calibration	In the homogeneous field of a plate capacitor, plate size 100 mm x 100 mm, plate spacing 20 mm, modulator system installed centered in the frame plate.



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