

Electrostatic Field Meter M 300



Electrostatic
Instrumentation



We are excited to introduce the M 300 Auto-Compensating Electrostatic Field Meter, the next evolution in electrostatic field measurement. The M 300 combines our trusted and highly accurate measurement method with groundbreaking new features for enhanced ease of use and precision. The firmware automatically adjusts the measurement value, ensuring highly accurate readings across a dynamic range of 1mm to 200mm. This versatility marks a significant improvement over other field meters that require a fixed 1-inch distance.

Applications

- Electronics Manufacturing: Prevent electrostatic discharge (ESD) damage to components by identifying static-prone areas and verifying grounding systems.
- Cleanrooms: Monitor for static charges that attract microscopic debris, allowing for adjustments to air ionization or humidity controls.
- Industrial Processes: Measure static buildup on materials like paper, plastics, and fabrics in industries such as web converting and printing.
- Workplace Safety: Mitigate explosion risks in flammable environments by monitoring and controlling static sparks.

Key Features

- Automatically adjusts the measurement value, ensuring highly accurate readings across a dynamic range of 1mm to 200mm.
- Range of $\pm 30\text{kV}$ with resolution as fine as 1 volt.
- Trusted Core Technology: At the heart of the M 300 is a highly stable, chopper-stabilized field sensor.
- Modern OLED display with 160° viewing angle.
- The M 300 holds up to 10 measurements in memory, allowing you to log a series of readings and review them later.
- Powered by a rechargeable lithium-ion battery with a modern USB-C port that handles both charging and easy data transfer to your computer.

D02157 Rev A

Questions? Here's how to contact our experts

☎ 833-ESD-GURU (833-373-4878)



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Specifications

Model 300 Electrostatic Field Meter

| | |
|----------------------|---|
| Display | OLED display, 128x64 |
| Controls | ON/MEASURE and MEMORY metal dome switches |
| USB-C | USB-C supports USB 2.0 and USB 3.1 |
| Battery | Lithium-Ion 1080Mah, 3.7V, 3.99Wh. UN 38.3 certified. |
| Battery Life | Battery life is approximately 20 hours continuous operation before recharging. |
| Size | <u>2.4"W</u> x <u>4.2"L</u> x <u>1.3"D</u> (62x106x22mm) |
| Weight | 109 grams (0.24 lbs) with battery |
| Operating Conditions | Operates at 0 - 50°C and 0 – 85% RH (non-condensing). Accuracy is unaffected by air ionization. |
| Max Voltage Range | -30.0 kV to +30.0 kV |
| Distance Range | 1mm to 200mm |
| Resolution | 1 volt from 0 to 999 volts. 10 volts from 1.00kV to 9.99kV. 100 volts from 10.0kV to Max Range. |
| Accuracy | ±5% |

To ensure consistent and valid results annual calibration is required
Contact: service@ets2.com for assistance.



Specifications subject to change without notice.