

TECHNICAL DATA

Model 715B Digital Static Field Meter



Product Highlights

- Assess electrostatic fields or charge on objects
- Measures up to ± 19.99 kV at a distance of 1 inch
- Accuracy of $< \pm 5\%$ in both normal and ionized environments
- Uses a chopper stabilized sensor
- LED ranging lights for positioning the meter at the right distance
- Zero function allows the display to be adjusted to zero (0)
- Hold feature to lock the reading on the display
- Low battery indicator on the display

What's Included

- ESD Check Model 715B Digital Static Field Meter
- ESC-001 Nylon Protective Case with Zipper
- 9 Volt Alkaline Battery
- Certificate of Calibration Traceable to NIST

Measure Surface Voltage and Polarity on Objects

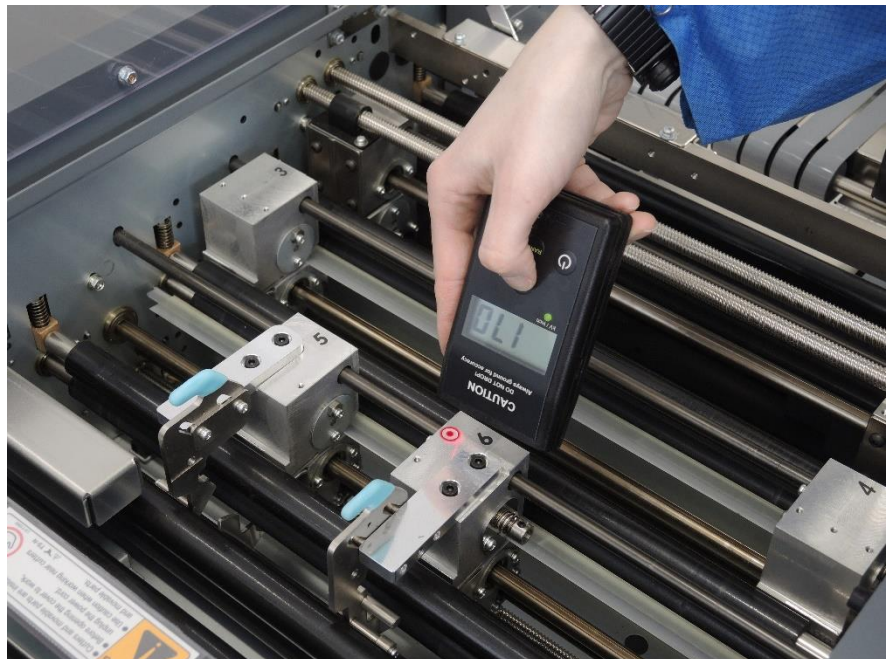
The Model 715B is a static field meter that indicates electrostatic field voltage from 0 to ± 19.99 kV in 10 volt increments at a distance of 1" (25mm) from the charged surface.

The 715B uses a chopper-stabilized sensor that can be operated in both normal and ionized environments with an accuracy of $< \pm 5\%$.

The Zero function allows to easily provide a zero-reference point by pressing a push-button instead of a rotary knob. The Hold button will lock the measurement on the display to allow analysis and to preserve battery life.

The ranging LED lights help guide the user to position the field meter at exactly 1 inch (25mm) from the charged object to be measured, providing a greater accuracy of the measurement.

The static field meter is grounded through the conductive case and the built-in 10mm snap when held by a grounded user.



Model 715B Digital Static Field Meter Specifications

| | |
|----------------------------------|--|
| PERFORMANCE | |
| Overall Range | 0 V to ±19.99 kV |
| Accuracy | Voltage Monitor Output: Better than ±5% of reading, ±10 mV Voltage Display: Better than ±5% of reading, ±2 counts |
| Stability | ±10 counts |
| VOLTAGE MONITOR | |
| Output | ±20.0 kV meter reading equals ±2.0 Volt output |
| Ratio | 0 to 20,000 volts is equal to ±2 volts output |
| FRONT PANEL | |
| Display | Number of Characters: 3.5 digits Character Format: 7-Segment Character Size: 12.70mm H x 7.62mm W Automatic polarity, LOW BATTERY indicator |
| Range | kV / Inch: 0 to ±19.99 kV / inch |
| Display Resolution | 10 Volts increments |
| Sampling Rate | Display readings are updated every 0.5 seconds Analog readings are taken every 100ms, or 10 times per second |
| Low Battery | Low battery indicator comes on at 7.4 Volts |
| POWER | |
| Input | 9 VDC alkaline battery included |
| Battery Life | Approx. 20 hours (of continuous use) |
| GROUNDING | |
| Case | Circuit grounded through conductive case |
| Ground Snap | 10 mm snap fastener mounted on back of case |
| MEASUREMENT DISTANCE | |
| | 1" ± 1/64" (25mm ± 0.5mm) LED distance indicator; aligned targets indicate 1 inch (25 mm) |
| CONTROLS | |
| Keypad | A custom membrane controls the different functions |
| ON/OFF | Short press to turn the instrument ON Long press to turn the instrument OFF |
| Hold | Captures and holds a stable measurement |
| Zero | Adjusts the displayed value to Zero (0) |
| ENVIRONMENT | |
| Operating Temperature | 10°C to 30°C (50°F to 80°F) |
| Operating Relative Humidity | 0% – 80%, non-condensing |
| Operating Altitude | 2000 m |
| PHYSICAL SPECIFICATIONS | |
| Size (with ground snap attached) | 27.2 mm H x 61.5 mm W x 105.9 mm L 1.07" H x 2.41" W x 4.17" L |
| Weight | 142 g (5.0 oz.) with battery |
| WARRANTY | |
| | 1 year limited warranty ¹ |

¹ Warranty on the sensor limited to a defective sensor that was not dropped or used for measuring a source greater than 20kV.

ESD Check by Prostat

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