

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.



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The ESD & Cleanroom Specialist

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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.

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