



Electrostatic Fieldmeter

MODEL 775

The pocket-sized Model 775 Fieldmeter is designed to locate and measure static charge potentials on product, people, equipment and packaging. The 775 uses a noncontacting, chopper stabilized field sensor and a ranging light mechanism to ensure correct measurements of electrostatic fields in all areas—even those using air ionization. The Fieldmeter is easily zeroed with the turn of a small knob and does not require re-zeroing between measurements. Powered by a 9-volt battery, the 775 features a conductive, impact-resistant case and a convenient snap-on ground lead to facilitate grounding and increase accuracy.

Features and Benefits

- Digital display
- Easy to read
- Distance ranging lights
- Ensures accurate distancing and measurements
- Chopper-stabilized circuit
- Operates in ionized environments
- SAMPLE and HOLD functions
- Useful in hard-to-reach places
- Battery powered, pocket-sized meter
- Portable, for use in facility static audits
- Analog output
- Signals to a chart recorder or other device for hard copy documentation of static charge levels



Specifications

Electrostatic Fieldmeter Model 775	
Input	9 VDC alkaline battery; battery life in excess of 40 hours; battery included
Display	3 1/2 digits, 0.4" (1 cm) digit height
Output	Analog output through miniature jack, 1V corresponds to 10 KV
Response	5 Hz at analog output, digital display updates 3 times per second
Features	HOLD and LOW BATTERY indicators, automatic polarity
Controls	On/off slideswitch, SAMPLE/HOLD pushbutton, ZERO control
Range	±0.00 to 19.99 KV at 1" (2.5 cm), higher voltages may be measured if distance is greater than 1" (2.5 cm)
Accuracy	±5%, chopper stabilized (accuracy unaffected by air ionization), least significant digit of display indicates tens of volts
Environment	Operates at 10–40°C (50-104°F) and 0–85% RH (non-condensing)
Ground	Ground through conductive case; snap-fastened ground snap provided
Dimensions	4.2L x 2.4W x 0.9D in. (10.7L x 6.1W x 2.3D cm)
Weight	5 oz (142g), with battery
Certifications	CE

Ordering Information

91-0775	Model 775 Electrostatic Fieldmeter
91-0181	Instrumentation tripod



Unique distance ranging lights ensure accurate readings and minimize user error. Two concentric circles overlap when the meter is at the correct distance—one inch from the surface.

Sample and Hold Functions

The Fieldmeter's SAMPLE and HOLD functions allow measurements in places difficult to reach with other instruments. In SAMPLE mode, the Fieldmeter provides continuous measurement. The HOLD mode digitally freezes the meter reading to permit operation in special situations, such as to measure static charge inside an opaque bag or in production equipment.

Enhancements

The 775 Electrostatic Fieldmeter can be upgraded to a Periodic Verification System (Model 775pvs). A hand-held alternative to a charged plate monitor, the 775pvs includes a detachable isolated plate and a charger in addition to the fieldmeter. Together, the three components can be used to verify ionizer operation and check ion balance and discharge times.



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