



Electrostatic Fieldmeter


MODEL 775

The pocket-sized ION Systems 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 9V 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
- Distance ranging lights
- Chopper-stabilized circuit
- SAMPLE and HOLD functions
- Battery powered, pocket-sized meter
- Analog output
- Easy to read
- Ensures accurate distancing and measurements
- Operates in ionized environments
- Useful in hard-to-reach places
- Portable, for use in facility static audits
- Signals to a chart recorder or other device for hard copy documentation of static charge levels

Specifications

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|-----------------------|---|
| Input | 9 VDC alkaline battery; battery life is excess of 40 hours; battery included |
| Display | 3-1/2 digits, 0.4 in. (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 sideswitch, SAMPLE/HOLD pushbutton, ZERO control |
| Range | ±0.00 to 19.99 KV @ 1 in. (2.5 cm); higher voltages may be measured at distances >1 in. |
| Accuracy | ±5%, chopper stabilized (accuracy unaffected by air ionization); least significant digit of display indicates tens of volts |
| Environment | Operates at 0-40°C |
| Ground | Grounded through conductive case; snap-fastened ground strap provided |
| Dimensions | 4.2L x 2.4W x 0.9D in. (10.7 x 6.1 x 2.3 cm) |
| Weight | 5 oz. with battery (141.8 g) |
| Warranty | 2-year limited warranty |
| Certifications |  |

Ordering Information

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



Sample and Hold Functions

The 775'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 (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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