Trek Models 876 and 884

Hand-Held Non-Contacting Electrostatic Voltmeters

The Trek Model 876 (±2kV) and Model 884 (±20kV) Hand-Held Electrostatic Voltmeters provide accurate, noncontacting measurements of electrostatic surface voltage for ESD applications in either ionized or non-ionized environments.

These two voltmeters utilize a measurement technique that overcomes the disadvantage of the typical hand-held field-meter by providing surface voltage measurements which are essentially independent of the sensor probe-to-measured surface spacing.

Model 876 Key Specifications

- Measurement Range: 0 to ±2 kV DC
- Measurement Accuracy: Better than ±5% of full scale over the entire recommended probe-to-surface separation range of 5 mm to 25 mm

Model 884 Key Specifications

- Measurement Range: 0 to ±20 kV DC
- Measurement Accuracy: Better than ±5% of full scale over the entire recommended probe-to-surface separation range of 30 mm to 60 mm

Typical Applications Include

- Measurement of electrostatic surface charge build up
- Manufacturing processes
- Electronic assembly testing
- Semiconductor material testing
- Dissipative material testing
- Automotive electronics testing
- ESD Auditing and troubleshooting

Features and Benefits

- Accurately measures surface voltage at a wide range of spacings
- No need to maintain a fixed spacing
- Chopper stabilized for drift-free operation in ionized environments
- NIST-traceable Certificate of Calibration provided with each unit
- CE compliant

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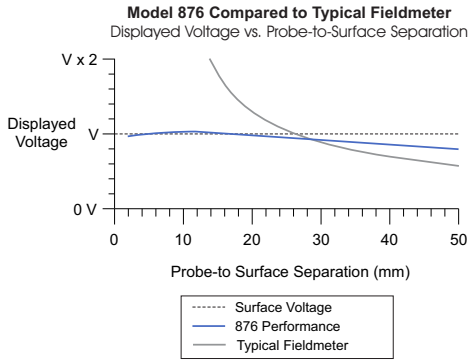
Model 876 and 884 Specifications

Model 876 Performance

Measurement Range 0 to ±2 kV DC

Measurement Accuracy



All Model 876 specifications are with a probe-to-surface separation of 15 mm, ±10 mm

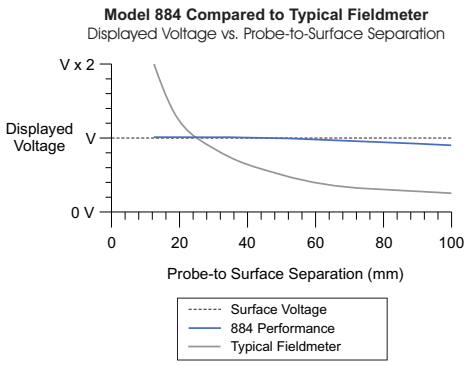
Model 876 Mechanical

Dimensions	31 mm H x 59 mm W x 173 mm D (1.2” H x 2.4” W x 6.8” D)
Weight	200 g with battery (7 oz.) with battery

Model 884 Performance

Measurement Range 0 to ±20 kV DC

Measurement Accuracy



All Model 884 specifications are with a probe-to-surface separation of 45 mm, ±15 mm.

Model 884 Mechanical

Dimensions	31 mm H x 59 mm W x 183 mm D (1.2” H x 2.4” W x 7.3” D)
Weight	200 g with battery (7 oz.) with battery

Common Features

Power On/Off	Push-button switch
Stability	
Drift with Time	Less than 600 ppm/hour, noncumulative
Drift with Temperature	Less than 600 ppm/°C
Operating Time	Approximately 8 hours with a full battery
Hold	A momentum push-button will command the voltage display to hold the value displayed until the switch is released
Voltage Display Range	A 3 ½ digit liquid crystal display
Model 876	0 to ±1999 V
Model 884	0 to 19.99 kV
Resolution	
Model 876	1 V
Model 884	10 V
Zero Offset	
Model 876	Less than ±1 count
Model 884	Less than ±4 counts
Sampling Rate	2.5 readings per second
Power Requirements	One (1) 9-volt NEDA 1604 battery, IEC 6R61 battery or equivalent
Ground Receptacle	Snap-on connector
Operating Conditions	
Temperature	15°C to 35°C
Relative Humidity	To 85%, noncondensing

Supplied Accessories

Model 876 Operating Instructions	PN: 23206
Model 884 Operating Instructions	PN: 23207
Ground Reference Cable Assembly *Always use the original grounding cord without any safety resistor. Failure to do so will lead to measurement errors.	PN: N9079
9-volt Battery	PN: F1003R

Optional Accessories

Carrying Case	PN: 43469

*Measured using the true rms feature of the Hewlett Packard Model 34401A digital multimeter

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