

# MONROE 257D

Portable, battery-operated fieldmeter for performing static surveys or for use as a diagnostic tool when troubleshooting problems caused by static build-up.



The Monroe 257D is a portable, battery-operated fieldmeter for performing static surveys or for use as a diagnostic tool when troubleshooting problems caused by static buildup. The instrument offers a chopper-stabilized measurement technique that is drift free, even in ionized environments. An AC adaptor is provided to recharge the batteries and to operate the Monroe 257D during longer-term tests.

## PRODUCT HIGHLIGHTS

- Battery or line operation - AC power module included
- Remote probe for easy monitoring of hard-to-reach locations up to 1000 feet
- Recorder output for unattended monitoring
- Intrinsically safe sensors approved for use in hazardous locations with approved IS barriers
- Unmatched accuracy, stability and versatility
- Loop control for consistency in electrostatic tacking of materials
- Drift-free measurement with chopper stabilizer in ionized environments

## TYPICAL APPLICATIONS

- Monitor charge build-up on webs during lamination, coating, manufacturing, printing
- Check bonding during bagging, dumping, transport operations
- Static surveys in offices, on production lines, "static-free" workstations
- Prevention of dendritic discharge patterns on photographic and X-ray film
- Monitor static levels in textile manufacturing to prevent shocks to personnel, bunching and flying of product

## HIGHLIGHTS

### Ranges

$\pm 2\text{kV/cm}$  and  $\pm 20\text{kV/cm}$

### Sensitivity

1 V/m and 10 V/m, respectively

### Static Accuracy

Better than 5% of reading

### Drift

<30 V/m/hour, non-cumulative after 30-minutes stabilization, referred to input

### Noise

<10 V/m rms, 0 to 200 Hz referred to input

### Response Speed

250 ms 10 to 90% (typical)

## TECHNICAL DATA

Performance Specifications	
Ranges	±2kV/cm and ±20kV/cm
Sensitivity	1 V/m and 10 V/m, respectively
Static Accuracy	Better than 5% of reading
Drift	<30 V/m/hour, non-cumulative after 30-minutes stabilization, referred to input
Noise	<10 V/m rms, 0 to 200 Hz referred to input
Response Speed	250 ms 10 to 90% (typical)
Analog Output	± 10 kV/m = ± 1.0 V output (< 10 ohm impedance)

Mechanical Specifications	
Dimensions	26.7 x 16.2 x 6.7 cm (10.5 x 6.5 x 2.6 in)
Weight	1.1 kg (2 ½ lb) with batteries
Accessories Included	Power supply, connecting cable, manual

Environmental Specifications	
Operating Environment	25°C, ±10°C,
Humidity	0 to 85% RH non-condensing, unaffected by ionized environment

Electrical Specifications		
Batteries	Built-in, rechargeable, gel-type, 12 V, 1.2 AH, >8 hours with backlight on - charging system onboard, <6 hours recharging time	
AC Power Adapter	Power adapter supplied	
	Input	100 to 240 VAC/ 47 to 63 Hz/260mA

Probe Specifications	
Probe	Built-in, rechargeable, gel-type, 12 V, 1.2 AH, >8 hours with backlight on - charging system onboard, <6 hours recharging time
Probe Options	Power adapter supplied
Probe Operatnig Environment	Power supply, connecting cable, manual



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### PRECISION | POWER | PERFORMANCE

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