



Features:

- **Monitors static levels up to four locations to 1000 feet away**
- **Accurate and drift-free even in ionized environments**
- **Provides analog measurement outputs for your process control/data acquisition**
- **Used in control or alarm systems**
- **Customizable alarm / data-acquisition modules available as options**
- **Simple installation gets system up and running in one hour or less**
- **Large, easy-to-read LED displays facilitate setup and permit instant status checks of all channels**
- **Based on proven Monroe Electronics Non-Contact Electrostatic Fieldmeter technology**
- **Intrinsically safe (EX) approved sensors**

The only full-time, plant-wide automatic defense against undetected static buildup

The Static Monitor 177 is the only system that automatically monitors the critical points in your facility to detect and warn of electrostatic charge buildup before it becomes a problem. Its accuracy, versatility and dependable, unattended operation make the 177 ideal for applications such as:

- **Converters, printers and coaters** - Rapidly pays for itself by protecting against product loss from static caused particle contamination. Also helps prevent jams, misfeeds, personnel injuries and distress, fires, and explosions
- **Dry particle transport systems** - Prevents blockages by rapidly detecting ungrounded conditions in pipes or ducts.
- **“Static-free” environments** - Continuously monitors the effectiveness of static eliminators and ionization systems.
- **Explosive atmospheres** - Safely monitors potentially hazardous sites to detect charge buildup. Factory Mutual Research approval applied for: Class I, Division 1, Groups C and D hazardous locations.

Simple to install and use

The 177 is as easy to install and use as it is effective. In an hour or less you can:

1. Mount sensors at all static-critical locations.
2. Mount the 177 console in your rack enclosure. (Monitoring more than four location requires additional consoles.)
3. Connect leads between sensors and console and between console and optional alarm module or your own system.
4. Turn console power on and zero each channel to be used.
5. **Begin reliable, continuous, drift-free, multi-point static measurements.**

Static Monitor Multi-Point Fieldmeter System model 177

Specifications:

| | |
|---|---|
| Monitor Console Temperature Range: | 0° to +50° C |
| Analog Outputs (user selectable): | 10V, $\pm 5V$, $\pm 2.5V$, $\pm 2.5V$ (full scale); <10W impedance; or 4-20mA |
| RS232 Control: | Channel status, channel disable / enable, group control |
| Stability: | $\pm 0.1\%$ of full scale |
| Displays: | Four 3½-digit LED's (one per input channel) |
| Power Requirements: | 90-260 VAC, 50/60 Hz, 27 watts |
| Dimensions: | 1¾ x 19 x 10½ inches (4.5 x 48 x 27 cm) Suitable for mounting in standard 19 inch rack |
| Weight: | 8 lbs. 9 oz. (3.88 kg) |
| Sensors* Range | |
| Standard Modes (1036E and F): | $\pm 10\text{kV/inch}$ |
| Optional: | $\pm 100\text{V/cm}$ (10kV/m) $\pm 1\text{kV/cm}$ (100kV/m) $\pm 10\text{kV/cm}$ (1MV/m) $\pm 20\text{kV/cm}$ (2MV/m) $\pm 1\text{kV/inch}$ |
| Accuracy: | Better than 1% |
| Sensitivity: | 0.025% of full scale |
| Drift: | 1% of full scale (typical), non-cumulative, long-term when purged according to manufacture's instructions |
| Noise: | <0.05% of full scale, peak-to-peak |
| Speed of Response: | 250 ms, 10%-90% of full scale (typical) |
| Dimensions Model 1036E: | 6.0 x 3.0 x 2.063 inches (15.24 x 7.62 x 5.24 cm) |
| Model 1036F: | 1.75dia. x 1.22 inches (4.45 x 3.11 cm) |
| Max Cable Length: | 1000 ft. (305 m) |
| Temperature Range: | -30° C to +100° C |
| Connector Style: | Amp DB9 |

Enclosure (optional)

| | |
|-------------------------|--|
| Capacity: | Two Monitor Consoles |
| Dimensions: | 4.5 x 20 x 14 inches (11.4 x 50.8 x 35.6 cm) |
| *Sold separately | |

Calibration:

Monroe Electronics instruments are factory-calibrated prior to shipment. Recalibration should be performed annually, or more frequently if specified by contract or company policy. Your instrument should also be recalibrated any time it has been repaired or tampered with. We are happy to recalibrate your instrument for you at a reasonable cost, or provide information and procedures on calibration upon request.

Warranty:

Monroe Electronics, Inc., warrants that each instrument and sub-assembly manufactured by them shall be free from defects in material and workmanship for a period of one year after shipment from the factory. This warranty is applicable to the original purchaser only.

The finest Electrostatic instrumentation and support:

For more than 40 years - ever since we invented the feedback--nulled electrostatic voltmeter, Monroe has been the technology and quality leader in electrostatic detection and measurement instrumentation. Today we offer the world's most complete array of fieldmeters, voltmeters, and resistivity meters. Our customers include the leading makers of photocopiers and laser printers, converters and microelectronics worldwide.

We know you need quality support as well as quality products. We pride ourselves on providing our customers with the most knowledgeable applications and installation support — as well as superior customer service.

How can we help?

Contact your Monroe Electronics representative for price and delivery information on this and other ME products, to schedule a no-obligation demonstration at your convenience. For the name of your nearest dealer, or for technical or applications assistance, contact Monroe Electronics directly at the address and numbers below.