

# ELECTROSTATIC FIELDMETER SENSORS

## Monroe 1036E / 1036F

### Which is right for you?

**The Monroe 1036E** is designed for industrial applications where ruggedness is vital. This unit is housed in heavy-duty Crouse Hinds 1/2-FS1 electrical switch boxes with stainless steel covers.

**The Monroe 1036F** is smaller and lighter for ease of use in less severe environments.

**Both types** have built-in provisions for purging with filtered air or inert gas to prevent drift and to provide additional safety in hazardous areas. (Both Monroe 1036 sensors are approved by Factory Mutual for use in hazardous locations. See Specifications for details.) Gas flow in the smaller 1036F is through the sensitive aperture only. To ensure thorough purging in the larger 1036E, gas flow is directed across the face of the probe, as well.



- **web monitoring** in converting, laminating and printing applications
- **safety monitoring** in explosive environments
- high-voltage **transmission line monitoring**
- virtually any **static monitoring or control applications**
- **For Monroe 177A fieldmeter system and Monroe 257D portable fieldmeter**
- **Cable lengths up to 1000 feet**
- **Operating temperatures to 100°C**
- **Approved by Factory Mutual as intrinsically safe**
- **Gas purgeable for even greater safety and less drift**
- **Wide selection of probe sensitivities**
- **Latest technology, highest performance**

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### Specifications

Specifications for Monroe 1036E(H) and Monroe 1036F(H) are identical except as noted.

#### Standard Range

1036 (E or F) -6: 0 to  $\pm 10$ kV/inch

#### Optional Ranges

1036 (E or F) -3: 0 to  $\pm 1$ kV/cm (100kV/m)

1036 (E or F) -4: 0 to  $\pm 10$ kV/cm (1MV/m)

1036 (E or F) -5: 0 to  $\pm 20$ kV/cm (2MV/m)

1036 (E or F) -7: 0 to  $\pm 1$ kV/inch

(Custom ranges available at additional charge.)

**Accuracy:** Better than 3% of full scale

**Sensitivity:** 0.025% of full scale

**Long-term drift:** <1% of full scale

**Noise:** <0.05% of full scale

#### Response

**speed:** 150 ms from 10% to 90% of full scale; 1 sec max

#### Operating temperature range:

E & F - -30° to 80°C

EH & FH - -30° to 100°C

#### Industry

Approved by **Factory Mutual approvals: Research** STD 3610:2010 as intrinsically safe for use in Class I, Division 1, Group C and D hazardous locations when used with approved IS barriers.

#### Dimensions

**1036E:** 2<sup>1/16</sup>" x 2<sup>3/4</sup>" x 6"  
(5.2 x 7.0 x 15.2cm)

**1036F:** 1<sup>3/4</sup>" dia x 1<sup>1/4</sup>"  
(4.4 x 3.2cm)

#### Weight

**1036E:** 3lbs, 6oz (1.5kg)

**1036F:** 8oz (0.2kg)  
Standard cable length - 10ft

### Calibration

Advanced Energy 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 will be happy to perform the calibration for you or refer you to one of our Authorized Service Organizations.

**NOTES:** Accuracy, drift and noise parameters are specified with sensors purged according to manufacturer's instructions at 25°C. Some performance may be lost with sensors other than standard. Sensors are normally furnished with 10ft. cables attached. Special substitute or extension cables are available to provide total lengths up to 1000 feet.



For international contact information, visit [advancedenergy.com](http://advancedenergy.com).

[sales.support@aei.com](mailto:sales.support@aei.com)  
+1 970 221 0108

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