

Isoprobe® Electrostatic Voltmeter



Description:

This instrument is a Model 279 with its input range limited to ± 300 volts (instead of ± 3 kV). Through the use of an alternative high voltage power supply and amplifier section. This alteration produces an instrument with improved noise characteristics and meter resolution and less proclivity toward arcing at extremely close probe-to-surface spacing.

Thus, the Model 279L is better able to take full advantage of the capabilities of the entire series of 1034 probes where the restricted voltage range is acceptable. This is particularly useful in areas of ESD monitoring and control. Some typical and potential applications include:

- **Disk Media Research**
- **IC Manufacturing and Handling**
- **Contact Potential Measurements**
- **Radiation Effects on Insulators and Semiconductors**
- **Bioelectric Field Studies**
- **Uses Model 1034 series probe**

Specifications:

Range:	± 300 volts
Accuracy:*	0.1% or 10mV, whichever is greater
Meter resolution:	100mV (4 digit LED)
Noise:*	90mV rms referred to input, typical
Speed of Response:	3ms, 10% to 90%, achievable at probe to surface spacing up to 0.1" with low resolution probe
Probe Dimensions:	.35" x .35" x 2.85" (9 mm x 9 mm x 73 mm)
Probe Cable Length:	10 ft, (3.0 m)
Output:	100:1, ± 3 volts full-scale
Drift:*	less than 10mV/h
Power requirement:	100, 115, 230 VAC, $\pm 10\%$, 50/60Hz, 15 watts
Size:	1.7x8.2x15.1 inches (44 x 208 x 384 mm), 1.75" rack mounting available (1 or 2 per rack)
Weight:	4lb. (1.8kg)
Accessories:	Manual, probe hole vent plug, line cord, optional 220V fuses

* These specifications based on the use of Model 1034EL or 1034SL probe at 0.005" probe to surface spacing. To achieve best drift characteristics, probe must be purged with filtered air or inert gas in a stable laboratory environment.

For further details, see individual data sheets for Models 279 and 1034 or consult the factory.

Interchangeable Model 1034 probe (type specified by customer) is 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 will be happy to perform the calibration for you or refer you to one of our Authorized Service Organizations.

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 Monroe Electrostatic & ESD product line is now owned by Advanced Energy and managed by TREK in Lockport, NY.

