



## Description:

This instrument is a Model 279 with its input range limited to  $\pm 300$  volts (instead of  $\pm 3$  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:

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

\* 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 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.