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TECHNOLOGY GROUP

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Find the *Monroe Electronics 244* at our website: *Click HERE*

ISOPROBE® Electrostatic Voltmeter model 244A CE

Features:

- **±3kV Range**
- **Measurement Without Physical Contact**
- **Accuracy Better Than 0.1% at Almost any Probe-to-Surface Spacing**
- **Full Complement of State-of-the-art High Ferquency Probes**
- **Provision for Master/Slave Operation**



High performance with a proven track record

Manufactured with the same care and attention that have made Monroe ISOPROBE® Electrostatic Voltmeters the industry standard, the Model 244A measures surface potential of insulating, semiconductive or conductive materials on a small 0.04" (1mm) diameter spot or over a large area using patented techniques which assure high-accuracy drift-free measurements almost independent of probe/surface separation.

Uses 1017A Series Probes:

Monroe Electronics Type 1017AE (end-viewing) or 1017AS (side-viewing) (probes are 0.35" [9mm] x 0.35" [9mm] x 2.85" [72.5mm] in length. Add 0.8" [20mm] length for cable at minimum bend radius.) Contains 1kHz tuning fork chopping driver and onboard hybrid microcircuit preamp. Useable from -50°C to +80°C. Optional probe configurations are available for high or low resolution and transparent probes for light decay measurements. Length of probe cable is 10 ft. (3.0 meters). Provision has been made for air or inert gas purging of probe. Unit is calibrated independent of probe and includes certificate of NIST traceability. Interchangeable Model 1017A probe (type specified by customer) is sold separately. See Model 1017data sheet for more details and options.

The fifth generation from the first name in non-contact measurement

Model 244A takes advantage of Monroe's years of experience in design of reliable instruments for NON-CONTACTING measurement of electrostatic potential combined with modern semiconductor technology. A full spectrum of proven-design interchangeable probes exposes broad new areas for exploratory research as well as providing a precision instrument for routine applications in electrostatic measurements. Some typical and potential applications include:

- **Electrophotographic and Xerographic Measurements**
- **IC Manufacturing and Handling**
- **Radiation Effects on Insulators and Semiconductors**
- **Electret Research**
- **Static Electrification, Electric Field Studies**
- **Process Monitoring and Control**

MONROE ELECTRONICS

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ISOPROBE® Electrostatic Voltmeter

Specifications:

Range: ±3000 volts, auto polarity.

Accuracy:* 0.1%, ±0.003%/°C over +20 to +40°C range (at recorder output). Useable to +50°C.

Speed of response:*

For typical input step:	<3ms	(10% to 90%)
for 1kV step:	<2½ms	(10% to 90%)
for 2kV step:	<3½ms	(10% to 90%)
for 3kV step:	<4ms	(10% to 90%)

Settling time: <3½ms to 1% of 1kV step input.

Frequency response: Small signal frequency response typically ±3db to >300Hz.

Drift:* <0.01V/hr after 1 hr warm-up (0.003V/hr typical). Not measurably affected by 10°C temperature variation or changes between 10% and 90% relative humidity.

Noise:* <0.3V rms or 2 volts peak-to-peak wide band (bandwidth restricted to<1kHz) referred to input.

Surface resolution: Determined by probe aperture size and surface-probe separation. Standard type 1017AE & AS probes with 0.07" (1.75mm) aperture will resolve a 0.10" (2.5mm) spot at 0.02" (0.5mm) separation.

Recorder output: Compressed analog output is input divided by 1000 (optional Model 244AK has divide by 200) for external loads greater than 1KΩ. Output connector is BNC.

Output filter: Bessel low pass filter with 0.7ms constant delay.

Size: 4 x 8½ x 14 inches (10 x 21.8 x 35.6 cm), 1.75" rack mounting available (1 or 2 per rack).

Weight: 7 lb. (3.2 kg)

Power requirement: 100, 115, 230 VAC, ±10%, 50/60Hz, 15 watts.

Accessories Included Manual on CD, line cord, phono plug

Certifications: CE Mark compliant

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.

* Dependent on specific probe model, probe-surface separation and environment. Specifications shown are for standard Type 1017AE or AS probes in a normal laboratory atmosphere. Separation for accuracy and response speed tests is 1/8" (3mm) and for noise and drift tests, 0.13mm (0.005"). Performance generally improves in controlled environments and may be degraded under exceptional dirty or dusty conditions or in ambiance of unstable gaseous constituents.

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