

## Description

The 20kV/cm Digital Stat-Arc, Model 282M is a pocket-sized, non-contacting static meter which produces consistently accurate readings, and is easy to use.

## Features:

- **20kV/cm Range**
- **Pulsing-beam range finder for always obtaining the correct reading**
- **Exclusive Auto-Zero circuit**
- **HOLD button captures transient readings**
- **Recorder output and 40-hour battery**
- **Drift-free accuracy even in ionized environments**
- **Charged plate adapter available**

## The right answers anywhere - easier than ever

With the Model 282M, accuracy is unquestioned. Simply hold the instrument so the range finder LED beams form a non-pulsing circle indicating you're at exactly the right distance from the target for readings up to 20 kV/cm. Additionally, Monroe's chopper-stabilized circuitry is immune to ionization, unlike ordinary static locators. Zeroing is push-button simple.

Designed for optimal performance as well as low cost you can't afford *not* to keep the Model 282M handy for:

- **Monitoring** "static-free" electronic workstations
- **Measuring** static buildup on webs in converting, laminating, and printing operations
- **Checking** grounds and bonding in dry particle/powder transport systems



## Simple to use:

1. Turn the instrument ON.
2. Discharge your body by touching a grounded metal object.
3. Point the aperture toward a grounded object and press the ZERO button.
4. Aim the aperture toward the target surface at a distance of 1 inch. Adjust the distance until the flashing beams of the LEDs in the instrument converge. Read the voltage and polarity of the charged surface on the meter display.

For additional measurements repeat step four only.

To freeze the display, press the HOLD button. To read the voltages, start at a greater distance to the target as given under specifications.

## Maintenance

The battery should be replaced annually, whenever you plan an extended period of unattended monitoring, or whenever "BAT" appears in the display for more than an instant. To obtain accurate and drift free readings the sensor plate and especially the area around the aperture must be kept absolutely clean at all times. Never touch the aperture with anything – not even a cotton swab.

### Specifications:

<b>Display:</b>	LCD, 3½-digit with auto polarity readout, with HOLD and LOW BATT indicators
<b>Range:</b>	0 to $\pm 19.99$ kV at 1.0 cm  Voltages over 20kV/cm and higher may be read by increasing the distance to the target
<b>Accuracy:</b>	$\pm 5\%$ of reading, + zero offset, $\pm 2$ lsd
<b>Analog output Amplitude:</b>	1 V signal denotes 10kV reading at 1 inch for high impedance loads
<b>Response Time:</b>	Typ. 80 - 100 msec 10 - 90%
<b>Jack Type:</b>	Accepts standard 3/32 inch (2.5mm) monaural phone plug
<b>Battery:</b>	9V NEDA #1604 or equivalent, Life: 40 hours of normal use, with alkaline battery
<b>Physical:</b>	(L x W x H): 2.4 x 4.2 x 0.9 inches (6.1 x 10.7 x 2.3 cm) Weight: 5 oz (0.14kg) with battery
<b>Operating Environment:</b>	0-50°C, 0-85% RH (non-condensing), unaffected by ionized equipment

### 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 two years after shipment from the factory. This warranty is applicable to the original purchaser only.

### The finest ESD instrumentation and support:

For more than a half-century, 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.