

Description

The Digital Stat-Arc 3, model 282A-1, is a pocket-size, non-contacting static meter which produces consistently accurate readings, is easy to use and is backed by a 2-year warranty... the best in the business.

Features:

- Pulsing-beam range finder for always obtaining the correct reading
- Drift-free accuracy even in ionized environments
- HOLD button to capture transient readings
- Recorder output and 40-hour battery life for unattended monitoring
- Exclusive auto-zero circuit
- Available charged-plate adaptor (Model 282CPS)

The right answers anywhere – easier than ever

With the Model 282A-1, accuracy is unquestioned. Simply hold the instrument so that the range finder LED beams form a non-pulsing circle indicating you're at exactly the right distance (1 inch) from the target to obtain readings up to 20 kV. Additionally, ME's chopper-stabilized circuitry is immune to ionization, unlike ordinary static locators. Zeroing is pushbutton simple.

Designed for optimal performance as well as lost cost you can't afford *not* to keep the Digital Stat Arc 3 handy for:

- **Monitoring** "static-free" electronic workstations
- **Measuring** static build up on webs in converting, laminating, and printing operations
- **Checking** grounds and bonding in dry particle/powder transport systems
- **Testing** ionizer performance using the optional charged plate adapter Model 282CPS



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:

- Display:** LCD 3 ½ digit, autopolarity readout, HOLD and LOW BATT indicators
- Range:** 0 to ± 19.99kV at 1 inch. Voltages of 20kV and higher may be read by increasing the distance to the target:
- Accuracy:** ± 5% of reading, +zero offset, ± 2 lsd

Analog Output

- Amplitude:** 1V signal denotes 10kV reading at 1 inch for high impedance loads
- Impedance:** 10k Ω Load > 1 meg for < 1% error. Sleeve GND tip 1/10,000

Response

- Time:** Typ. 80 – 100 msec
10 – 90%

Battery Type

- Life:** 9V NEDA #1604 or equivalent life: 40 hours normal use

- Dimensions:** 2.4 L x 4.2 W x 0.9 H in inches (6.1 x 10.7 x 2.3 cm)

Operating

- Environment:** 0 –50° C, 0 85% RH (non-condensing) unaffected by ionized environment

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 30 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.