

Description

The 2000V Range Digital Stat-Arc, Model 282L is a pocket-sized, non-contacting static meter designed for sensitive, low-voltage measurements which produces consistently accurate readings, and is easy to use.

Features:

- **2000 Volt Range**
- **1 Volt Resolution**
- **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 282L accuracy is unquestioned. Just 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 2000 V. Additionally, ME'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 282L handy for:

- **Monitoring** "static-free" electronic workstations
- **Checking** grounds and bonding in dry particle/powder transport systems
- **Testing** ionizer performance using 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.

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.

2000 Volt Range Digital Stat-Arc Model 282L

Specifications:

Display:	LCD, 3½-digit with auto polarity readout, with HOLD and LOW BATT indicators									
Range:	0 to ± 1999 V at 1 inch. Voltages over 2.0kV and higher may be read by increasing the distance to the target <table><tr><td>V</td><td>Distance</td><td>Multiply reading by</td></tr><tr><td>0-4000</td><td>4.0 inches</td><td>2</td></tr><tr><td>0-8000</td><td>8.5 inches</td><td>4</td></tr></table>	V	Distance	Multiply reading by	0-4000	4.0 inches	2	0-8000	8.5 inches	4
V	Distance	Multiply reading by								
0-4000	4.0 inches	2								
0-8000	8.5 inches	4								
Accuracy:	±5% of reading, + zero offset, ±2 lsd									
Analog output Amplitude:	1 V signal denotes 1.0kV reading at 1 inch for high impedance loads									
Response Time:	Typ. 10 sec 10 - 90%									
Jack Type:	Accepts standard 3/32 inch (2.5mm) monaural phone plug									
Battery:	9V NEDA #1604 or equivalent, Life: 40 hours of normal use, with alkaline battery									
Physical:	(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									
Operating Environment:	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 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.

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

