

## Digital Stat-Arc 2 IS for Hazardous Locations

model **282IS**®

## Digital Stat-Arc 3

model **282A-1**

### Description

The Digital Stat-Arc 2, model 282IS and Digital Stat-Arc 3, model 282A-1 are pocket-sized, non-contacting static meters which produce consistently accurate readings, and are easy to use.

### Features:

- 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
- Model 282IS - Intrinsically safe (IS) meter UL Certification Class I Division 1, Groups A, B, C, D and Class II, Division 1, Groups E, F, G

### The right answers anywhere - easier than ever

With the Model 282, 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. 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 282 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
- **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.

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.



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# Digital Stat-Arc 2 IS model 282 IS

## Digital Stat-Arc 3 model 282A-1

### Specifications:

<b>Display:</b>	LCD, 3½-digit with auto polarity readout, with HOLD and LOW BATT indicators									
<b>Range:</b>	0 to ± 19.99kV at 1 inch.  Voltages over 20kV and higher may be read by increasing the distance to the target									
	<table><thead><tr><th>kV</th><th>Distance</th><th>Multiply reading by</th></tr></thead><tbody><tr><td>0-40</td><td>4.0 inches</td><td>2</td></tr><tr><td>0-80</td><td>8.5 inches</td><td>4</td></tr></tbody></table>	kV	Distance	Multiply reading by	0-40	4.0 inches	2	0-80	8.5 inches	4
kV	Distance	Multiply reading by								
0-40	4.0 inches	2								
0-80	8.5 inches	4								
<b>Accuracy:</b>	±5% of reading, + zero offset, ±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									

<b>282IS Industrial Approval and certification:</b>	UL Certification Class I Groups A, B, C, D, and Class II Groups E, F, G, when powered by 9-volt carbon zinc or zinc chloride battery NEDA 1604 or NEDA 1604D. UL Certification for Class I, Division 1, Groups C and D only when powered by 9-volt alkaline NEDA 1604A.
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**For UL approved, Intrinsically Safe meters, customer must specifically request model 282IS when ordering.**

**A few custom range units are available on special request:**

282L - 2000V F.S.	282H - 200kV F.S.
282M - 20kV/cm	SE0101 Voltmeter Adapter

### 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 refer you to one of our Authorized Service Facilities.

### 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.

[www.trekinc.com/Monroe](http://www.trekinc.com/Monroe)

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