

Precision Electrostatic Potential Measuring Instrument STATIRON DS3H



Dedicated hard case
(standard accessory)

Main Features

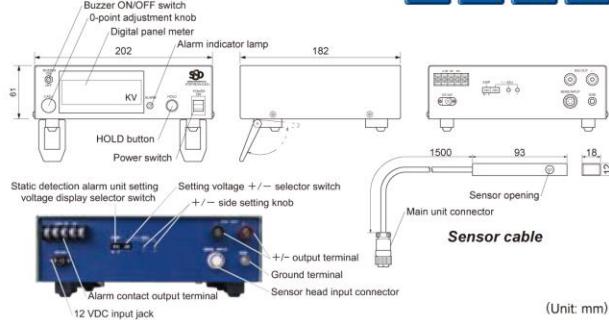
The STATIRON DS3 portable precision electrostatic measuring instrument with a digital display is designed for non-contact measurement of the potential of a charged object. It detects static electricity by periodically varying the electric field received by the sensor electrodes and converting it to AC voltage. The device uses an oscillating chopper that utilizes a tuning fork.

- The sensor head is extremely compact, measuring only 12×18×93 (W×H×D) mm when compared to earlier models.
- The power supply can be switched between two sources: AC (adapter) or DC (built-in battery).
- An output terminal is provided to enable connection to a recorder or similar output device.
- Red LED (WARNING), buzzer and contact output alarm functions are enabled when the detected value exceeds the preset voltage.
- The setting range is selectable. Specify either Type A (0 to ±1.999 kV) or Type B (0 to ±19.99 kV) when you purchase the device.

Application Example

- Product control by measuring the charge conditions at each stage of the production line
- Checking of static electricity in the vicinity of a computer
- Checking of the operation of ionizers

Dimensional Diagrams



(Unit: mm)

| | |
|-----------------------------|---|
| Model | DS3H |
| Model name | TYPE ADS3H-A / TYPE BDS3H-B |
| Signal detection method | Oscillating chopper *1 |
| Potential measurement range | TYPE A: 0.000 to ±1.999 kV (overscale display: 1 or -1) TYPE B: 00.00 to ±19.99 kV (overscale display: 1 or -1) |
| Measurement accuracy | ±5% of rdg ±2 digits (TYPE A: 1 V resolution, TYPE B: 10 V resolution) |
| Measurement distance | TYPE A: 5 mm, TYPE B: 30 mm |
| Mode selection | Specify desired settings when placing order |
| Polarity display | Negative polarity (—) only |
| Battery check | BATT LOW lit display |
| Power supply | 12 VDC mode: 12 VAC adapter, 500 mA |
| Contact output terminals | COM-NC, COM-NO: contact ratings: 125 VAC 0.3A, 30 VDC 1 A |
| Contact output | TYPE A: 1 V at 1 kV, output impedance: 100 Ω TYPE B: 1 V at 10 kV, output impedance: 100 Ω |
| Alarm output setting range | TYPE A: ±0.200 to ±1.999 kV, accuracy ±10% (settable in 1-V units) TYPE B: ±02.00 to ±19.99 kV, accuracy ±10% (settable in 10-V units) |
| Alarm output | WARNING (red LED) lights Buzzer (with ON/OFF switch) output for approx. 1 s |
| Operating Environment | 0 to 40°C |
| Dimensions | Main unit: 202×182×61 mm; Head section: 12×93×18 mm (W×H×D) |
| Weight | Main unit: 1.7 kg, head unit: 135 g |
| Accessories | AC adapter (100 to 240 VAC), dedicated hard case |

*1 The oscillating chopper is very susceptible to shock such as being dropped. Take care not to subject it to strong shock when using it.