

# STATICO

Global Supplier of Static Control & Cleanroom Products

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## *Product Specifications*

### *S2001PVSF*

## *Periodic Verification System*

### *Description*

STATICO's S2001PVSF, the Periodic Verification System Kit, is a hand-held alternative to a charged plate monitor. It consists of four components- an Electrostatic Fieldmeter, Model S2001, a Detachable Plate, and a Charger- for measuring static charge and verifying ionizer performance. Used alone, the Fieldmeter measures electrostatic fields on any surface. Ranging lights ensure accurate and repeatable measurements by enabling users to determine the exact distance at which the voltage reading is correct. A SAMPLE and HOLD function allows measurements in places difficult to reach with other instruments. Attach the plate and use the charger and the S2001PVSF can be used to verify ionizer operation and check ion balance and discharge time. The unit is designed to take measurements that correspond to those made by a charged plate monitor following Ionization Standard ANSI EOS/ESD S3.1-1991 of the ESD Association. For increased accuracy, a conductive, impact-resistant case and flexible ground cord facilitate grounding.

### *Plate Assembly and Charger*

The S2001PVSF Plate Assembly & Charger have been designed to match the small size of the S2001, the Electrostatic Fieldmeter. The charger contains an isolated power supply with two stainless steel contact plates for positive or negative charging. A set screw in the plate assembly calibrates the measured voltage

### *Electrostatic Fieldmeter*

The S2001 is designed to locate and measure static charge potentials on product, people, equipment and packaging. The instrument uses a non-contacting, chopper stabilized field sensor and a ranging light mechanism to ensure correct measurements of electrostatic fields in all areas- even those using air ionization. The Fieldmeter is easily zeroed with the turn of a small knob and does not require re-zeroing between measurements. Powered by a 9Volt battery, the S2001 features a conductive, impact-resistant case and a convenient snap-on ground lead to facilitate grounding and increase accuracy.

## Specifications

### S2001 Electrostatic Fieldmeter

<b>Input</b>	9 VDC alkaline battery (included). Battery life in excess of 40 hours.
<b>Display</b>	3 ½ digits, 0.4" (1 cm) digit height.
<b>Output</b>	Analog output through miniature jack, 1 V corresponds to 10 KV.
<b>Response</b>	5 Hz at analog output, digital display updates 3 times per second.
<b>Features</b>	HOLD and low BATTERY indicators, automatic polarity.
<b>Controls</b>	ON/OFF side switch, SAMPLE/HOLD pushbutton, ZERO control.
<b>Range</b>	+/-0.00 to 19.99 KV @ 1" (2.5 cm), higher voltages may be measured at distances greater than 1".
<b>Accuracy</b>	+/-5%, chopper stabilized (accuracy unaffected by air ionization); least significant digit of display indicates tens of volts
<b>Environment</b>	Operates at 0-40°C
<b>Ground</b>	Ground through conductive case; snap fastened ground cord provided.
<b>Dimension</b>	4.2"LX2.4"WX0.90"D (10.7X6.1X2.3 cm).
<b>Weight</b>	5 oz with battery (141.8 g).
<b>Warranty</b>	2-Year limited warranty
<b>Certification</b>	CE

### The Plate Assembly

<b>Range</b>	0-2 KV for either polarity, higher voltage may be measured.
<b>Ground</b>	Ground plate attaches to conductive case of S2001.
<b>Dimensions</b>	1.0"HX3.00"WX1.3"D (2.5X7.6X3.3 cm) supported on Teflon ® standoffs.
<b>Weight</b>	2.5 oz. (71 g).
<b>Certification</b>	CE

### The Charger

<b>Input</b>	9VDC alkaline battery. Battery life in excess of 20 hrs continuous operation.
<b>Output</b>	1300 VDC+/-20% for each polarity, current limited to less than 1 micro amp.
<b>Power Indicator</b>	Red LED
<b>Features</b>	Calibration set screw, push button ON/OFF
<b>Output Contacts which</b>	Two stainless steel contact plates, output polarity depends on which plate is grounded.
<b>Dimensions</b>	4.2"LX2.4"WX0.9"D (10.7X6.1x2.3 cm).
<b>Weight</b>	4 oz. (113 g) with battery.
<b>Certificate</b>	CE