

STATICO

Product Specifications for S2001PVSK Periodic Verification System



Description

STATICO's S2001PVSK, 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 S2001PVSK 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. NIST Certified.

Plater Assembly & Charger

The S2001PVSK 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

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

The Plate Assembly

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

The Charger

Input	9VDC alkaline battery
Output	1.1 kV minimum for ± voltage
Dimensions	1.1" H x 2.6" W x 4.5" L (2.8 x 6.6 x 11.4 cm)
Weight	5 oz. (140 g) with battery
Certificate	CE