



Periodic Verification System

MODEL 775PVS

The Simco-Ion Periodic Verification System Model 775PVS is a hand-held alternative to a charged plate monitor. It consists of three components—a fieldmeter, a detachable plate, and a charger for measuring static charge and verifying ionizer performance. Used alone, the fieldmeter measures electrostatic fields on any surface.

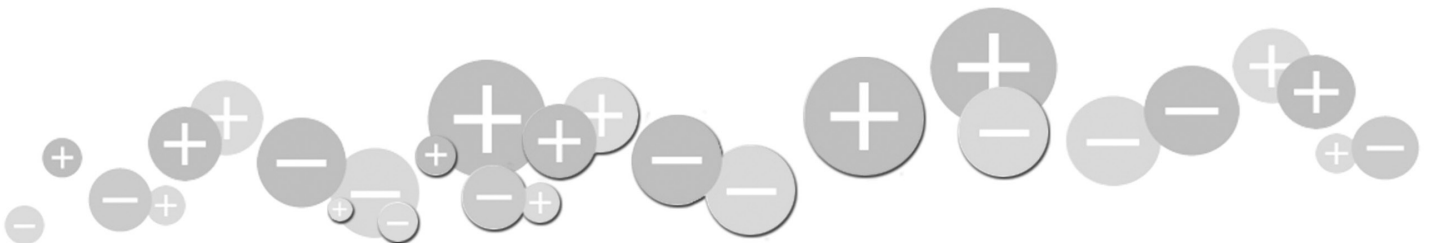
Ranging lights ensure accurate and repeatable measurements by enabling users to determine the exact distance at which the voltage reading is correct. A SAMPLE and HOLD function allows measurements in places difficult to reach with other instruments. Attach the plate and use the charger, and the Model 775PVS can be used to verify ionizer operation and check ion balance and discharge times. The unit is designed to take measurements that correspond to those made by a charged plate monitor following Ionization Standard ANSI/ESD STM3.1-2015. For increased accuracy, the included flexible ground cord should be used to connect to a solid ground during operation.

Features


- Digital display
- Distance ranging lights
- Chopper circuit
- NIST-traceable calibration

Benefits


- Easy to read
- Ensures accurate distancing and measurements
- Operates in an ionized environment
- Correlatable to a charged plate monitor



Model 775PVS

775 Electrostatic Fieldmeter	
Battery	9V alkaline battery included, battery life is excess of 40 hours
Output	Analog output through miniature jack, 1V corresponds to 10 kV
Range	±0.00 to 19.99 kV @ 1" (2.54 cm), higher voltages may be measured at distances >1"
Accuracy	±5%, chopper stabilized (accuracy unaffected by air ionization), least significant digit of display indicates tens of volts
Response	5 Hz at analog output, digital display updates 3 times per second
Display	3-1/2 digits, 0.4" (1.02 cm) digit height
LCD Indicator	HOLD, BAT (low battery), automatic polarity
Control	ON/OFF side-switch, SAMPLE/HOLD push-button, ZERO control
Ground	Grounded through conductive case, snap-fastened ground strap provided
Operating Env	0-104°F (0-40°C)
Enclosure	Conductive case
Dimension	4.15"L x 2.40"W x 0.86"D (10.5 x 6.10 x 2.18 cm)
Weight	0.31 lb (0.142 kg) with battery
Warranty	Two-year limited warranty
Certifications	

775 Plate Assembly

Plate Capacity	15 picofarads ±2 picofarads
Range	0-2 kV for either polarity, higher voltages may be measured
Ground	Ground plate attaches to conductive case of 775 Fieldmeter
Calibration	Adjusting screw provided
Dimension	1.0"H x 3.0"W x 1.3"D (2.54 x 7.62 x 3.30 cm) Teflon™ standoffs supports
Weight	0.156 lb (0.071 kg)
Certifications	

775C Charger


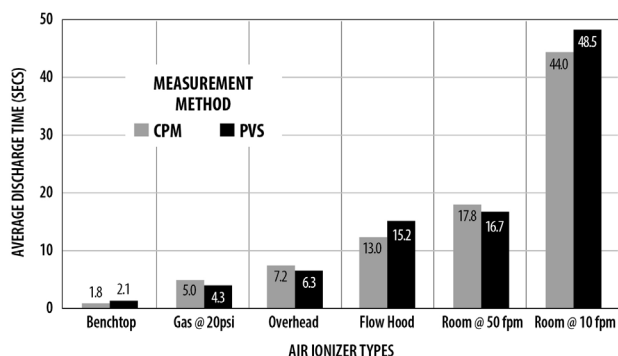
Battery	9V Alkaline battery
Output	Each polarity: 1300 VDC ±20%. limited to <1 µA Two SST contact plates: Output polarity depends on which plate is grounded
LED Indicator	Red when push-button is depressed
Dimension	4.28"L x 2.41"W x 0.86"D (10.9 x 6.12 x 2.18 cm)
Weight	0.25 lb (0.113 kg) with battery
Certifications	

Plate Assembly and Charger

The Plate Assembly and Charger have been designed to match the small size of the 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.



Ordering Information

91-0775PVS	Periodic Verification System Model 775PVS
19-0775PVS-CR	Calibration Certificate
91-0775	Replacement Fieldmeter
91-0775C-02	Replacement Charger

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