

Features:

- Innovative non-contacting electrometer provides tests to unprecedented low voltage with unmatched stability
- Fully configurable operating parameters
- Soft keys for highly intuitive programming
- Manual and automated testing of Decay and Balance
- Internal storage for up to 1500 tests, 500 locations and 4 test protocols
- Internal battery for portable operation (also line operated)
- Large, easy to read, high contrast LCD display
- Detachable 6" x 6" plate (Optional plate 1" X 1" plate available)
- RS232 interface
- Built in temperature and Humidity Sensors

Plate Assembly:

6" x 6" plate assembly includes a detachable ground plane that is used for improved consistency in decay readings. Built in self-test resistor for function confidence check is also incorporated. (Optional 1.0" x 1.0" plate assembly is available.) Small diameter (3 mm) low noise coaxial cable is used for inter-connection to main unit.



The Model 288's easy-to-use, self-contained design simplifies ionizer audits:

Testing your AC/DC room ionizers or compressed gas ionizers is as simple as pushing a button.

The Model 288 is the first Charged Plate Monitor to incorporate a microprocessor and data storage, eliminating the need for a dedicated computer. All test parameters are programmable allowing tests to be optimized and not dictated by equipment limitations. Once programmed, the Model 288 will perform a series of tests automatically: +/- decays, balance, balance peaks, temperature, humidity, time/date are stored and may be reviewed via the display or downloaded to a PC. The PC software (included) permits the user to define and name ionizer locations, test setups and sequences, then upload these to the CPM. All of these features result in a flexible, easy to use instrument that facilitates audits while minimizing errors.

Operation:

The Model 288 performs manual or automatic decay and balance tests on critical ionization equipment and stores the results and averaged decay times for up to 500 workstations. Temperature and relative humidity are displayed real-time and recorded with the test data.

All pertinent test information is presented on a large format LCD display. Custom protocols and personal workstation definitions can be uploaded and results downloaded for analysis via a bi-directional RS-232 link.

In DECAY mode the plate is charged to a predetermined voltage from ± 10 to ± 1000 . During test, the plate will discharge toward zero in the presence of ionization. The elapsed time of decay between the start voltage and a preset stop voltage, as low as zero volts, is displayed.

In BALANCE mode, isolated plate voltage, test duration and + / - peak voltages are displayed.

Self-tests include battery check, tests for functional



Charge Plate Monitor model 288

Specifications:

Charging Voltage:	± 10 to ± 1000 volts, differential adjustable 10 volts to 100 volts in 1 volt increments
Zero Stability:	<100mV/sec (No incident ion flow)
Timer:	0.1 to 999.9 seconds in 0.1 sec increments 1000 to 9999 seconds in 1 sec increments
Start Voltages:	1000 volts $\pm 0.3\%$ standard, adjustable between 10 and 1000 volts in 1 volt increments
Stop Voltages:	100 volts $\pm 3\%$ standard, adjustable between 0 and 995 volts in 1 volt increments
Peak Displays:	\pm peak voltage during float mode
Power:	90-250 VAC 50/60 Hz
Battery Life:	6 hours
Voltage Output Monitor:	divide by 200, 0.1%
Display:	240 x 64, character/graphic
Voltage Display:	3 ½ digit, ± 1.0 volt resolution
Timer Display:	4 digit, 0.1 sec resolution
Accuracy:	electrometer $\pm 0.1\%$ of reading, ± 1 volt referred to input
Bandwidth:	1kHz at 20V _{p-p} , 10Hz at 2000V _{p-p}
Speed of Response:	<10 mSec
Zero Drift:	<100mV/sec (No incident ion flow)
Noise:	<12mV _{RMS}
Charge Plate Capacitance:	20pF, $\pm 5\%$
Plate Self-discharge:	<200mV/sec
Operation Temperature:	5°C to 35°C
Temperature Sensor:	$\pm 2^\circ\text{C}$ typ
Operating RH:	to 80%, non-condensing
Humidity Sensor:	$\pm 5\%$ typ from 10% to 80% RH @25°C
Size:	11" x 9" x 6" (280 x 229 x 152 mm)
Weight:	12½ lb. (5.7 kg)

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 provide information and procedures on calibration upon request.

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.

The finest Electrostatic instrumentation and support:

For more than 40 years - ever since we invented the feedback--nulled electrostatic voltmeter, Monroe has been the technology and quality leader in electrostatic detection and measurement instrumentation. Today we offer the world's most complete array of fieldmeters, voltmeters, and resistivity meters. Our customers include the leading makers of photocopiers and laser printers, converters and microelectronics worldwide.

We know you need quality support as well as quality products. We pride ourselves on providing our customers with the most knowledgeable applications and installation support — as well as superior customer service.

Optional Carrying Case Available



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