Botron B486288 Technical Data Sheet

Overview:

Botron's B486288 Charge Plate Monitor with data storage capabilities measures and stores positive and negative decay as well as ion balance and stamps temperature, humidity, time, and date. Fully programable test functions, with ability to run a series of automated tests with the push of a button. The B486288 will not leave you limited like other charge plates on the market. Comes with bundled software for easy management of your equipment.

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Product Notes and Features

- Stores 1500 tests, 500 locations & 4 Protocols
- Manual & Automated Testing
- Fully Configurable Testing Parameters
- Software Included



The B486288 performs manual or automatic decay and balance tests on ionization equipment. The unit stores test results and averaged decay times along with temperature and relative humidity for up to 500 workstations.

Test information is presented on the LCD display with custom protocols and personal workstation definitions can be uploaded. Results can also be downloaded for analysis via a bi-directional RS-232 (serial connector) link.

When in decay mode the plate is charged to a user-defined voltage from ± 10 to ± 1000 . When in the direct path of ionized air flow the plate will discharge toward zero. As a result, the elapsed time of decay between the start voltage and a preset stop voltage is displayed on the LCD display.

While in balance mode, isolated plate voltage, test duration and + / - peak voltages will be displayed.

Self-tests include battery check, tests for functional errors and a built-in decay self confidence check.



PROPERTIES

SPECIFICATIONS

Display Voltage Accuracy Resolution

Time Accuracy Resolution

Electrometer Dynamic range Follower error Speed of Response Bandwidth

Noise < 12 mV rms Divide by 200 Monitor output Accuracy **Output Impedance** 1K ohm Start Voltages Range Resolution Accuracy **Stop Voltages** 0- ±995 volts Range Resolution Accuracy Charge Voltage Range Resolution Accuracy Charge Plate Capacitance 20 pF ±10% Zero Drift Self Discharge < 200 mV/sec Peak Detector (Balance Test) Bandwidth <10HZ Temperature Sensor 0 - 50°C Range Accuracy ±2°C typ **Humidity Sensor** Range Accuracy ±5% typ Operating Temperature 5°C to 35°C Humidity Battery life 6 hours Charge Time Power Voltage Wattage CPM Size 121/2lb. (5.7kg) Weight

240 x 64 character/graphic 3¹/₂ digit display (Decay and Peak reading) $\pm 0.1\%$ of reading ± 3 lsd 1 volt for readings > 99 volts 0.1 volt for readings < 100 volts 4 digit display 0.1% of reading ±1 lsd 0.1 second for readings < 1000 seconds 1 second for reading > 999 seconds

±1200 volts < 10 mV <10 msec for 1 kV to 0 volts (90%-10%) -3db @ 1Khz 20Vp-p -3db @ 10Hz 2000Vp-p 0.1% of reading ±12 mV 1000 volts ±0.3% Standard ±10 to ±1000 volts Settable to 1 volt 0.3% of setting ±2.5 volts 100 volts ±3% Standard Settable to 1 volt 0.3% of setting ±2.5 volts 10 to 100 volts above the start voltage Settable to 1 volt increments 0.3% of setting ±2.5 volts < 100 mV/sec (no incident ion flow)

10% - 80% RH @ 25°C

to 80%, non condensing < 8 hrs to > 90% capacity 90 - 250 VAC 50/60 Hz

< 12 watts operating 11" x 9" x 6" (280 x 229 x 152 mm)

CALIBRATION

Botron's B486288 are factory-calibrated prior to shipment. Recalibration should be performed annually, or more frequently if specified by contract or company policy. For warranty purposes all calibrations and/or repairs on unit should be returned to Botron to avoid warranty issues.

PART NUMBERS

B486288 Charge Plate Monitor

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Disclaimer. All statements of technical information are believed to be true and are based upon tests we believe to be reliable. The proper use and application for this product must be the responsibility of the user. The statements herein shall have no force or effect.