Autoanalysis System
PGA-710B

Data Sheet

Measure, Record, Analyze & Report Electrostatic Voltage Generation and Decay Performance

The Prostat PGA-710B is a unique electrostatic data analysis device for use with Prostat's PFK-100 Fieldmeter/Charge Plate Monitor Set. It records, plots, analyzes and automatically constructs reports of Walking Body Voltage Generation (ANSI/ESD STM 97.2), electrostatic decay, voltage transients & retention, ionizer performance and other static measuring functions. Its analytical features document and automatically calculate projected levels of typical Human Body (HBM) voltages. It helps determine the risk of equaling or exceeding damaging or hazardous HBM discharge voltages in static sensitive facilities.

The Autoanalyzer links to a Field meter's analog output and a computer's USB using provided cables. Its Autoanalysis Applications software converts your instruments into a digital chart recording system with automatic analysis and reporting features. The PGA-710B will perform measurement and recording functions, perform data analysis, generate charts, then construct and print out complete reports, including the facility's ambient temperature and relative humidity during each test.

Specifications for the PGA-710B Autoanalysis System

Input	< ±2 Volts
Output	USB
Sampling Rate	50, 100 and 200 Samples per second
File Limit	≈ 14 minutes/file, continuous recording at 50 samples per second ≈ 7 minutes at 100 s/sec, and 3.5 minutes at 200 s/sec
Battery Consumption Notes	PGA-710B current flow with Main Power Switch **ON**: 1. During **Sleep Mode** (Main Power Battery Switch ON, unit OFF): 8 – 10mA. Unit in standby Panel keypad is energized 2. During **Normal Operations**: 108mA Unit is operating in remote or computer mode 3. **Computer USB Battery Charge**: ≈100ma Operating in computer mode and receiving 100mA current from USB port reduces battery drain rate to 8mA 4. Battery Charge from AC/DC Charger: ≈280 mA Charge battery with Main ON, OFF, or during operations
Temperature & Relative Humidity Sensor	**Factory Parameters:** Sensor calibration is "fixed" based on materials, components and construction. It combines capacitive-polymer sensing technology with a measurement method that eliminates temperature correction and end user calibration. Once manufactured, the sensor's calibration is not directly adjusted. The unit performs within parameters ±2% accuracy. Specifications are: **Temperature** Range: -25 to 85 °C (-13 to 185 °F) Accuracy: ±1°C (≈1.8°F) Response Time 6 ms in 20 I/min minimum air flow **Humidity** Operating Range: 0 – 100 percent (%) Accuracy: ±2.0% Rh, 0-100% non-condensing
Dimension (LxWxH)	5.0" x 2.8" x 1.35" (12.7 cm x 7.1 cm x 3.4 cm)
Weight	6.5 oz (185g)

System Requirements for the Autoanalysis Software version 2.0

The following hardware and software is required to run the Autoanalysis Application Software.

- Microsoft® Windows® XP, Vista, Win7 32-bit, Win7 64-bit, Win8, Win10, Server 2003, Server 2008 or Server 2012

- 90 MHz Intel Pentium-class processor, or an AMD Opteron, AMD Athlon64 or AMD Athlon XP Processor

- 32 MB of RAM, 96 MB Recommended

- 110 MB of hard disk space required, 40 MB additional hard disk space required for installation (150 MB total)

- 800 x 600 or higher-resolution display with 256 colors

- Microsoft® Data Access Components 2.6

- Microsoft® DirectX 9b

- Instrument input limits to ±2 volts

Note: Providing over ±2 Volts to the PGA-710B Autoanalyzer will void the warranty. For appropriate adapters or cables, please contact Prostat Corporation or your Prostat Authorized Reseller.