PROSTAT® CORPORATION

PROFESSIONAL
STATIC
CONTROL
PRODUCTS

PGA-710 Autoanalysis System Set

The Prostat PGA-710 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 body voltage generation, electrostatic decay, voltage 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 lap top 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-710 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

Dimensions (L x W x H):	5.0" x 2.8" x 1.35" (12.7 cm x 7.1 cm 3.4 cm)
Weight:	6.5 oz (185g)
Input:	< ±2 Volts
Output:	USB and IR
Sampling Rate:	50, 100 and 200 Samples per second
File Limit:	17 to 20 minutes per file, continuous recording
Battery Consumption Notes:	PGA-710 current flow with Main Power Switch **ON**:

1. During **Sleep Mode** (Main Power Battery Switch ON, unit OFF): 8 – 10ma
   Panel keypad is energized and unit is in standby mode

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: 280mA
   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	-22 to 185 ºF (-30 to 85 ºC)
Accuracy	±0.40 ºC (≈1 ºF)
Response Time	50 seconds in slow moving air

Humidity	
Operating Range	0 – 100 percent (%)
Accuracy	±2.0% Rh, 0-100% non-condensing
Linearity	±0.5% Rh
Response Time	25 sec-slow moving air 77 ºF (25 ºC)
Recovery Time (from Condensation)	10 seconds

Stability ±0.5% Rh/year

System Requirements

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

Microsoft® Windows® 98, NT® 4.0 Service Pack 6a, 2000, ME, XP, Vista or Server 2003.

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-710 Autoanalyzer will void the warranty. For appropriate adapters or cables, please contact Prostat Corporation or your Prostat Authorized Reseller.

1072 Tower Lane, Bensenville, IL 60106 USA
Phone +1 (630) 238-8883 Fax +1 (630) 238-9717
Web access: http://www.prostatcorp.com

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