



## **PRS-812 Resistance Meter Set**

The Prostat PRS-812 is a unique, constant voltage, wide range ohmmeter with data logging and calculating capabilities. Fully portable and battery operated, the PRS-812 measures resistance from <0.1 to 1.0x10<sup>12</sup> ohms with measurement accuracy of  $\pm 5\%$ . It can be operated in fully Automatic, Automatic-Manual and Manual modes.

This sophisticated instrument digitally displays measurements in  $\Omega$ ,  $K\Omega$ ,  $M\Omega$ ,  $G\Omega$  and  $T\Omega$ , and in exponential format, e.g., 1.5E08.

It simultaneously displays data with a fully synchronous analog scale using x1, x10 and x100 multipliers, and a bank of color programmable LED's (<10<sup>3</sup> to >10<sup>14</sup> Ohm). Multiple test voltages include 0.01-10V, constant 10V and 100V ranges. which may be selected automatically by the instrument to comply with industry measurement practices or Manually by the operator.

The PRS-812 records and stores up to 80 measurements, and calculates Minimum, Maximum and Average of all stored data. Fully automatic, the PRS-812 controls test voltage, resistance ranging and electrification period to make the most accurate and repeatable measurements available to ESD Auditors and technicians.

## **Specifications**

Range: Optimal Resistance Range from <0.1 (1.0E-1) Ohms to 1

Tera ohms (1.0E+12 ohms). Maximum resistance

indication: 200 Tera ohms (2.0E+14 ohms).

## **TEST VOLTAGES**

**Automatic mode Default:** 

< 0.01 to 10 Volts Variable 1.0E-1 to 1.0E+4 Ohms Constant Voltage: 10 Volts  $\pm$  <0.2 Volts 1.0E+4 to 1.0E+6 Ohms At 10 & 100 Volts 100 Volts ± <2.0 Volts 1.0E+6 to 2.0E+14 Ohms

Manual Mode:

< 0.01 to 10 Volts Variable 1.0E-1 to 1.0E+5 Ohms

10 Volts  $\pm$  < 0.2 Volts 1.0E+3 to 1.0E+9 Ohms

100 Volts  $\pm$  < 2.0 Volts 2.0E+5 to 2.0E+14 Ohms

Accuracy: Overall:  $\pm$  < 5% at ambient conditions (at 23°C and 30%)

Rh).

Specific Range Tolerances:

1.0E-1 to 1.0E+1 ohms: ±5% Corrected for Test Lead

Resistance

1.0E+1 to 1.0E+12 ohms: ±2.0% with 10-foot Test Leads

1.0E+12 to 2.0E+14 ohms: ±40% or ±0.25 Decade with

Grounded, Shielded Leads

**Display:** Multi-function 2-5/8" x 1-5/8" Liquid Crystal Display with

0.5" digit height. Displays 3-1/2 digits in Ohms, or 1.0EXX in exponential format. Ohms Display indicators:  $\Omega$ ,  $K\Omega$ ,  $M\Omega$ ,  $G\Omega$  and  $T\Omega$ . Includes 19-segment analog scale (1-10 with 0.5 indication) with  $\chi$ 1.  $\chi$ 10.  $\chi$ 2.  $\chi$ 100 multipliers

with 0.5 indication) with x1, x10, & x100 multipliers. Number of Data Points in Memory (0-80). Automatic Electrification Time (seconds), or Time required to

Manually obtain steady state measurement. Displays data HOLD, BATTERY status, MIN, MAX, AVG, REC and Test

Voltage (<10, 10, or 100 V)

**LED Indicators:** 14 Color Programmable LED's from <10<sup>3</sup> to >10<sup>14</sup> ohms.

Colors (RED, GREEN, YELLOW, or Blank/OFF) may be

operator programmed in SETUP mode.

**Timer:** Times measurements In Seconds up to 99 seconds

(Displayed on LCD)

Memory: Register stores up to 80 data points (MEM # Displayed

after RESET)

**Response & Electrification:** Response from >0.1 to <1.0E06 Ohms: <2.0 seconds

Average Measurement Period from 0.1 ohms to 1.0E12 Ohms **2.5** Seconds. Calculated Electrification Period per ESD S11.11, **7.5** seconds 0.1 ohms to 10E+12 Ohms. Programmed Electrification 1.0E+12 to >2.0E14 Ohms:

**15.0+** seconds

**Power:** Two 9 Volts alkaline batteries. Nominal battery life 25

hours.

**Dimensions (W x L x D):** 4.0" x 6.0" x 2.0" (10 cm x 15 cm x 5 cm)

Weight: 22 oz with batteries (624g)

Open Circuit Current (I): <4 ma @ 100 Volts



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Specifications subject to change without notice. Printed in U.S.A. REV2: 6/20/07



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