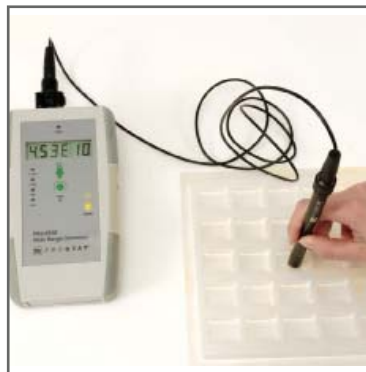
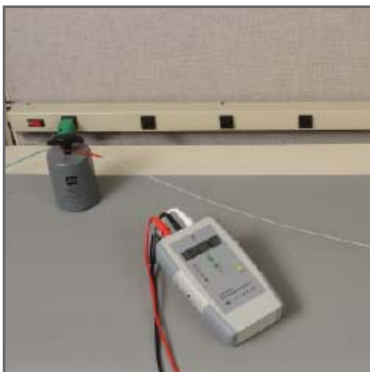


Wide Range Ohmmeter PAS-853B



Wide Range Resistance Meter Designed to Support ANSI/ESD S20.20 Program Standard.

The PAS-853B is a wide range ohmmeter designed specifically for ESD Plant Auditors who must make many measurements quickly while supporting ANSI/ESD S20.20 Program Standard and periodic verification requirements. The PAS-853B performs in accordance with standard resistance measurement practices outlined in ANSI/ESD 541 Packaging and meets all audit requirements of ESD TR53.



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CONTROLS

ON/OFF Battery Bus Cut-off

Slide Switch ON SIDE OF CASE

ON: Energizes instrument and LCD displays
Software Version then GO A with **AUTO**
indication (Default)

OFF: Isolates battery and DC voltage from in-
strument controls and circuit. Use for transport
and storage

TEST Pad

With Test Leads installed: Press once & Release.
Measurements performed automatically

In conjunction with MODE changes from Auto
operation to Continuous

MODE Pad

Steps through Auto/Voltage ranges with each
press of MODE Pad:


- AUTO: Default automatic resistance range
& Voltage control
- <10V: Manual Operation 0.01 to ≤10V Test
Voltage;
- Resistance Range: 0.01E-1 to 9.99E9 Ω
- 10V: Manual Operation at 10V (Nominal,
Semi-Constant)
- Resistance Range: 0.98E4 to 9.99E10 Ω
- 100V: Manual Operation at 100V (±<5V)
Constant Voltage
- Resistance Range: 0.98E6 to 9.99E12 Ω

When data in **HOLD**, press **MODE** to terminate
HOLD without changing operational mode
- Press **MODE** with **TEST** to change from Auto
to Continuous
- Used to measure lead resistance (*NULL*)
- Used by Prostat Authorized Technicians for
Voltage Calibration

CONNECTIONS

Positive (+): Test Voltage (RED) – Supplies test
voltage to electrodes/fixtures

Negative (-): Current sensing (BLACK) –
Conducts current from electrode, fixtures or
Ground to instrument

Chassis (): Shielding connection to chassis
(WHITE) – Reduces transmitted energy and
effect on current measurement

Note: 3/4 inch spacing between RED and BLACK
accommodates dual banana BNC adapters

INDICATION

Colored LED's indicate instrument operational
MODE and Test Voltage (YELLOW) used for
the current measurement, as well as measure-
ment completion (GREEN LED).

- AUTO: ON during automatic operations;
OFF in Manual mode
- <10V:
- 10V
- 100V
- GREEN LED: Measurement hold

ACCURACY

Overall:
± <5% at ambient conditions (at 23°C and 30% Rh)

Nominal Range Tolerances:
± <5% at ambient conditions (at 23°C and 30% Rh)

0.01E-1 to 1.99E+0Ω: ±10%, ±2 Counts
2.00E+0 to 9.99E+9Ω: ±2%, ±2 Counts
1.00E+10 to 9.99E+10: ±5%, ±2 Counts
1.00E+11 to 9.99E+11: ±10%, ±2 Counts
1.00E+12 to 9.99E+12: ±20%, ±4 Counts

TEST VOLTAGES

Automatically selected and controlled in AUTO
mode. May be manually selected by pressing
MODE pad in the following order:

<10V Variable based on resistance load
- Provides 0.001 to ≤10V
- Functional in AUTO within range
0.01 Ω - <1.0E+4 Ω
- Manual Operation Resistance
Range: 0.01E-1 to 9.99E+9 Ω

10V Constant Voltage (Under Load)
- Test Voltage Varies ± <5% in AUTO or
Manual Operations
- Functional in AUTO within range
1.0E+4Ω - <1.0E+6 Ω
- Manual Operation Resistance Range: 0.9E+4
to 9.99E+10 Ω

100V Constant Voltage (Under Load)
- Test Voltage Varies ± <2% in AUTO or

Manual Operations

- Functional in AUTO within range
1.0E+6 Ω - <1.0E+13 Ω
- Manual Operation Resistance Range: 0.90E6
to 9.99E12 Ω

Returns to Auto Mode

MODES OF OPERATIONS

GO A: Performs all automatic and manual
voltage select functions, stops and displays
measurements after Electrification Period (EP)
is complete, then displays data with Green LED
ON for 10 seconds.

GO C: Performs all automatic and manual
voltage select functions, continuously displays
measurements until the operator presses **MODE**
or **TEST** pads. GO C disables electrification
period controls.

POWER

One 9V alkaline transistor battery; battery life
> 50 hours

DIMENSIONS

7.25 in. (184 mm) x 4.3 in. (109 mm) x 1.4 in.
(36 mm)

WEIGHT

13.2 oz. (375 gram) with battery installed

ENVIRONMENT

Operating Temp: 65°F to 90°F (18°C to 32°C)
Operating Relative Humidity: 10 to 60 %
Operating Altitude: Under 6500 ft. (2000 m)

Prostat recommends making measurements
using its instruments and fixtures in an environ-
ment of 72 – 76° Fahrenheit (22 – 24° Celsius),
25 – 35% Relative Humidity.

NOTES

¹Tolerance and accuracy measurements were
conducted under controlled conditions with
close tolerance reference resistors.

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