PROSTAT®



PRS-815C Resistance Meter

Precision Measurement. Built for ESD.

PRS-815C

Resistance Meter

$1.00 \times 10^{3}\ \Omega$

to

$1.00 \times 10^{12}\ \Omega$

The PRS-815C delivers essential resistance measurement capability in a simple, purpose-built instrument. Designed for routine ESD verification, it provides fast, straightforward operation for everyday testing throughout the ESD-controlled environment.



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Simple by Design.
ESD Testing. Simplified.

Purpose-built for routine ESD verification, the PRS-815C keeps operation simple with the essential functions needed for everyday resistance testing.



AUTOMATIC OPERATION
Straightforward resistance testing with minimal setup.

CLEAR, DIRECT RESULTS
Ohmic or exponential resistance display at a glance

RECHARGEABLE USB-C POWER
Rechargeable Li-ion power provides portable operation with convenient USB-C charging.

ROUTINE ESD APPLICATIONS
Worksurfaces • Flooring • Garments • Footwear • Seating • Grounding & ESD Control Applications

PROSTAT®

Built for Everyday ESD Testing

Essential capability. Practical performance.

1 kΩ TO 1 TΩ MEASUREMENT RANGE
Broad resistance measurement capability for routine ESD verification.

BUILT-IN ELECTRIFICATION PERIOD
Automatically applies the required measurement timing for consistent, repeatable testing.

AUTOMATIC 10 V / 100 V SELECTION
Automatically selects the appropriate test voltage based on measured resistance.



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Specifications

CHARACTERISTIC	PRS-815C
Display	6.9 × 4.8 cm (2.7 × 1.9 in) 6-digit, 7-segment color HTN display
Battery Power	Rechargeable Li-Ion battery; user-replaceable through rear battery door
Battery Charging	Rechargeable via USB-C through PC port or Wall Charger (included)
Battery Charge Indicator	Battery status indicator on instrument display
Battery Charging Time	2 hours
Battery Life	480 hours typical. 50 hours continuous use. Approx. 8,000 measurements.
Operating Temperature	10°C to 30°C (50°F to 80°F)
Operating Relative Humidity	0% to 85%, non-condensing
Operating Altitude	2,000 m
Storage Temperature	–30°C to +60°C (–22°F to +140°F)
Dimensions (W × H × D)	117 × 188.5 × 48 mm (4.59 × 7.42 × 1.90 in)
Weight	500 g (1.10 lb)
Case Material	Polycarbonate with rubber side grips
Color	White
Warranty	2-Year Limited Warranty[1]

[1] Warranty on the battery pack limited to a defective battery pack and excludes normal end of life of the battery. The warranty does not cover defects that are caused by normal wear and tear, inadequate maintenance, insufficient ventilation, transportation, storage or faulty repair, misuse, neglect, accident or abuse, modification to the battery pack.

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Resistance Accuracy

MEASURING RANGE	ACCURACY[1]
$1.00 \times 10^{3}\ \Omega$ to $9.99 \times 10^{10}\ \Omega$	±2%
1.00×10^{11} to $9.99 \times 10^{11}\ \Omega$	±5%
$1.00 \times 10^{12}\ \Omega$	±20%

Test Voltage Accuracy

TEST VOLTAGE	RESISTANCE RANGE	ACCURACY [1]
0.0001–9.99 V	$1 \times 10^{-2}\ \Omega$ to $<1 \times 10^{4}\ \Omega$	±0.5%
10 V	$1 \times 10^{4}\ \Omega$ to $<1 \times 10^{6}\ \Omega$	±0.5%
100 V	$1 \times 10^{6}\ \Omega$ to ∞	±0.5%

Automatic Test Voltage

RESISTANCE RANGE	TEST VOLTAGE
Below $1.00 \times 10^{6}\ \Omega$	10 V
$1.00 \times 10^{6}\ \Omega$ and above	100 V

Electrification Period

RESISTANCE RANGE	MEASUREMENT PERIOD	MINIMUM ELECTRIFICATION PERIOD
$1.00 \times 10^{-2}\ \Omega$ to $<1.00 \times 10^{6}\ \Omega$	2 sec	3 sec
$1.00 \times 10^{6}\ \Omega$ to $<1.00 \times 10^{12}\ \Omega$	2 sec	8 sec

[1] At 23°C (73.5°F) and 30% relative humidity
[2] Corrected for test lead resistance

Ordering Information

Configure the system for your application

ORDERING INFORMATION

PART NO.	DESCRIPTION
PRS-815C	Digital Resistance Meter Set
PRS-815RM	Digital Resistance Meter Kit [1]

* Kit includes two 5 lb conductive rubber electrodes and hard carrying case.



OPTIONAL ACCESSORIES

PROBES

PRS-801W	5 lb Conductive Rubber Electrode
PRF-912B	Miniature Concentric Ring
PRF-922B	Miniature 2-Point Probe

FIXTURES & ACCESSORIES

PFA-860	Footwear Auditor
PFA-861H	Hand-Held Electrode
PFC-825B	Glove CAFE Fixture
PGC-821S	Garment Clips
800LR	10 foot Silicone Test Lead - Red
800LB	10 foot Silicone Test Lead - Black
PRS-800CS	Cable Spacers
Q007B	Common Point Ground Connector

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