Portable Milliohmmeter RCP2A

► Resistance measurement from 1µΩ to 6Ω
► Measuring current up to 10 Amp
► Manual / Auto range
► Four wire measurement
► Memory of 1000 readings
► Light weight 4kg and small size
► Removable and rechargeable battery pack

Dedicated to measure bonding resistance also called metalisation, its main applications are measurement on plane, helicopter, rocket, army vehicles, for both production and maintenance.

" Designed for easy carrying, and easy testing, the RCP2A also carries function, the data logging function which permits test sequences to be downloaded from an Excel spread sheet "

Technical Characteristics

LOW RESISTANCE MEASUREMENT

Resistance
● 4 Measurement ranges :
6mΩ, 60mΩ, 600mΩ, 6000mΩ
● Auto or manual range selection with 2 currents selectable by range
● Resistance measurement from 1µΩ to 6Ω
● Accuracy :
± 0.1% reading + 0.1% full scale

Current and voltage
● Measurement current
100mA , 1A , 10A
● Accuracy :
± 0.2% reading + 0.1% full scale
● Impulse current shape 100ms
● 5V Open circuit voltage

Signals
● Measurement threshold adjustable
● Visual (red/green leds) and audible signals for results

Data logging
● 999 measurement memories with measurement results, date and time
● Programmable test sequences mode, downloading operator Identity, serial number… for Excel spread sheet analysis
● Testing program and results loadable Via RS232

Connection
● RS232 interface between PC and RCP2A connection
● 2 circular connectors (3 and 4 pins) on front panel with JAEGER locking system

Display
● 240 x 64 LCD matrix display with backlight
● LCD numerical screen with 6000 digits resolution
● Remote Control Display (option) with 3 meters cable

Battery
● Operating time : 20 hours or 1000 measurements at 10A
● Easy removable NiMh battery pack
● 3 hours charging time with the external charger

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Range	Resolution	Current	Uncertainty @ 20°C ± 5°C, 1 year	Temperature Coefficient / °C
6Ω	1mΩ	100mA / 1A	□ (0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
600mΩ	100μΩ	1A / 10A	□ (0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
60mΩ	10μΩ	1A / 10A	□ (0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS
6mΩ	1μΩ	1A / 10A	□ (0.1%Rdg. + 0.1%FS)	40ppm Rdg. +30ppm FS

General Characteristics

RCP2A presentation
- Robust case in polyester resin and glass fiber, dust and water proof
- Colour ivory cream
- Portable device with small weight and carrying strap

Accessories
- Easy to use with a single measurement trigger button
- See accessories for full detailed list
International standard
- Complies with 2025 AIR regulation

Dimensions
- Height :   250 mm
- Width   :   340 mm
- Depth   :   120 mm

Weight
- < 4,5 kg

Power
- NimH battery Pack
- Charger 90-250V input voltage

Operating temperature
- 0°C to +50°C
- Rel. humidity up to 80% none condensing

Storage temperature
- -20°C to +50° C

Safety
With Safety Extra Low Voltage circuit
- Conforms to EN 61010-1
- Main instruments class 3
- Battery pack class 3
- External charger class 2

Options

Remote Control Display
RCP-01
Remote Control Unit (RCU) with memory
- Dimension : 200 x 120 x 60mm
- Weight : 600g
- Display: graphic LCD screen 64x240 points, 6000 digits
- Ending: 9 pins Sub-D type connector
- Type: Remote terminal operating in hands or strapped on the front arm to make the measurement easier

RCP-08
RCU / PC adapter with power supply

Battery
RCP-02
Additional battery pack

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MILLIOHMMETER

RCP-03
Additional battery charger

Computer environment
RCP-09

RCP2PRO software and PC connection cable CO179A

• Sequence testing, user management, easy-to-use interface with its only 4 button production screen, easy data upload/ download

• Type: PC software, working under Windows™ 2000 and Windows™ XP PRO

CO179A

To use between RCP2A milliohmmeter and PC for data communication.

• Length: 2, 50 meters

• Starting/Ending: 9 pins male/ female Sub-D type connector

• Type: interconnection cable between PC and RCP2A

Protection and transport
RCP-05

Fiber glass suitcase

• Dimension: 660 x 460 x 180mm

• Weight: 7kg

• Type: to store the unit, its accesories and measurement leads

RCP-15

Protection lid

• Dimension : 340 x 120 x 60mm

• Weight : 1,5kg

• Type: protection for the front panel

RCP-16

Bag for RCP2A RCU

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Available accessories

Kelvin Tips

TE9-1

- Length: 3 meters
- Starting: 4 pins male plug
- Ending: retractable tip probe
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory). The length of the metal part of the probe is 180 mm.
- Most common application: especially made to test small points. The retractable tip probe will make a contact with the 2 pins when pushed by the operator hand

C0251

- Length: 2 meters
- Starting: 4 pins male plug
- Ending: retractable tip probe
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory). The length of the metal part of the probe is 150 mm.
- Most common application: especially made to test small points. The retractable tip probe will make a contact with the 2 pins when pushed by the operator hand. Its short probe allows reaching some unaccessible parts.

C0258

- Length: 2 meters
- Starting: 4 pins male plug
- Ending: retractable tip probe
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory). The length of the metal part of the probe is 180 mm.
- Most common application: especially made to test small points. The retractable tip probe will make a contact with the 2 pins when pushed by the operator hand

TE28/1

- Length: 3 meters
- Starting: 4 pins male plug
- Ending: bipolar retractable pin test probe. A remote control button is on the test probe in order to start the test at distance.
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory)
- Most common application: especially made to measure on some surfaces you want to go through, in order to make a good contact (painting ...)

Kelvin Clips

C08

- Length: 12 meters
- Starting: 3 pins male plug
- Ending: small sized kelvin clip
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory)
- Most common application: especially made to crimp on small fragile connections

C010

- Length: 12 meters
- Starting: 3 pins male plug
- Ending: large crocodile clip with sharp teeth
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory)
- Most common application: especially made to crimp on the main ground of the plane

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MILLIOHMMETER

CO250

- Length: 2.50 meters
- Starting: 4 pins plug + 3 pins plug
- Ending: one Kelvin crocodile clip, 3 banana plugs and tips
- Type: 4 wires lead
- Most common application: especially made to crimp on small connection points

CO255

- Length: 2.50 meters
- Starting: 3 pins male plug
- Ending: Kelvin crocodile clip
- Type: 2 wires lead (this has to be ordered with an other 2 wires lead accessory)
- Most common application: especially made to crimp on small connection points

Extension Cable

CO9

- Length: 20 meters
- Starting: 3 pins male plug
- Ending: 3 pins female plug
- Type: extension cable for 2 wires lead accessory type
- Most common application: especially made to have longer cables and test points that are separated with big distance.

RCP-04

- Length: 12 meters
- Starting: 4 pins male plug
- Ending: 4 pins female plug
- Type: extension cable for remote control unit & measurement leads
- Most common application: especially made to have longer cables and test points that are separated with big distance.

RCP-06

- Length: 15 meters
- Starting: 3 pins male plug
- Ending: 3 pins female plug
- Type: extension cable on reel
- Most common application: especially made to have longer cables and test points that are separated with big distance.

RCP-07

- Length: 90 meters
- Starting: 3 pins male plug
- Ending: 3 pins female plug
- Type: extension cable on reel
- Most common application: especially made to have longer cables and test points that are separated with big distance.

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MICRO OHM METER

Available accessories

RCP-10
- Length: 20 meters with embase
- Starting/Ending: 3 pins male plug
- Type: extension cable on reel
- Most common application: especially made to have longer cables and test points that are separated with big distance.

RCP-11
- Length: 20 meters with embase
- Starting: 3 pins male plug
- Ending: 3 pins female plug
- Type: extension cable on reel
- Most common application: especially made to have longer cables and test points that are separated with big distance.

RCP-14
- Length: 30 cm
- Starting: 3 pins male plug
- Ending: 4 pins female plug
- Type: adaptator Jaegger 3 pins male to 4 pins female

CO262
- Length: 3 meters
- Starting: 9 pins Sub-D type connector
- Ending: 15 pins Sub-D type connector
- Type: interconnection cable between remote control display (RCP-01) and RCP2A

Calibration

RCP-91
- Calibration box

RCP-17
- Shunt 1 mΩ 0.5%

RCP-18
- Shunt 5 mΩ 0.5%

RCP-19
- Shunt 10 mΩ 0.5%

RCP-20
- Shunt 50 mΩ 0.5%

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