

Product Datasheet - Technical Specifications



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SEFELEC RCP2A

Milliohmmeter

The RCP2A digital milliohmmeter has 2 operating modes. An automatic mode with 999 test steps written in Excel and a manual mode from $1\mu\Omega$ to 6Ω . The test programs and the measurement results are transferred by the RS232 interface.

Designed to be transported easily, the RCP2A enables the measurement sequences to be recorded in Excel.

TECHNICAL CHARACTERISTICS

- resistance measurement from: $1\mu\Omega$ to 6Ω
- measurement current adjustable from 100 mA, 1 A and 10 A
- LCD display unit resolution 6000 points
- manual or automatic range
- 4-wire measurement principle
- autonomy of 1000 measurements
- RS232 interface and data transfer software on PC
- weight < 4 kg and reduced dimensions
- battery pack easily interchangeable

Resistance

- resistance measurement from $1\mu\Omega$ to 6Ω
- 4 measurement ranges: 6 m Ω , 60 m Ω , 600 m Ω , 6000 m Ω
- automatic or manual measurement range with 2 possible currents per range
- specification: $\pm (0.1\% \text{ of the reading} + 0.1\% \text{ of the full scale})$

Voltage and current

- measurement current 100 mA, 1 A, 10 A
- current pulse lasting 100 ms
- open circuit voltage 5 V

Signal

- high and low adjustable measurement thresholds
- red/green LED and sound signal

Data recording

- 999 test steps with measurement memorisation
- programmable test sequences
- test program and results downloaded via the RS232 interface

Connection

- RS232 interface and data transfer software on PC
- 2 connectors (3 and 4 pins) on the front side with JAEGER sockets for measuring

Display

- Matrix LCD of 240 x 64 points with back-lighting
- display of 6000 points
- remote display unit (RCP-01 option) with 3 metres of cable

Battery

- operating duration: 20 hours or 1000 measurements under 10 A
- battery pack easily removed
- 3 hour charging time with external charger

Range	Resolution	Current	Accuracy at 20°C ± 5°C, 1 year	Temperature coefficient /°C
6000 m Ω	1 m Ω	100 mA / 1 A	$\pm (0.1\% \text{ Reading} + 0.1\% \text{ FS})$	40 ppm Reading + 30 ppm FS
600 m Ω	100 $\mu\Omega$	1 A / 10 A	$\pm (0.1\% \text{ Reading} + 0.1\% \text{ FS})$	40 ppm Reading + 30 ppm FS
60 m Ω	10 $\mu\Omega$	1 A / 10 A	$\pm (0.1\% \text{ Reading} + 0.1\% \text{ FS})$	40 ppm Reading + 30 ppm FS
6 m Ω	1 $\mu\Omega$	1 A / 10 A	$\pm (0.1\% \text{ Reading} + 0.1\% \text{ FS})$	40 ppm Reading + 30 ppm FS

FS : Full Scale



SEFELEC RCP2A

Milliohmimeter

GENERAL CHARACTERISTICS

Presentation

- portable device
- glass fiber and polyester resin box
- device which can be placed on the ground or carried with a strap

Accessories

- easy to use with measurement start using a push-button or automatic

International standard

- according to the Air standard 2025

Dimensions

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

Weight

- < 4.5 kg

Power supply

- interchangeable NimH battery pack
- battery charger (mains voltage from 90 to 253 V AC)

Operating temperature

- 0° C to + 50° C

Storage temperature

- -20° C to + 50° C

Safety

- compliant with the standard EN 61010-1
- safety category 3
- category 3 battery pack
- category 2 external charger

OPTIONS

RCP-01

- remote control with separable display unit and memory
- dimensions: 200 x 120 x 60 mm
- weight: 600 g
- display: Back-lit LCD 64 x 240 points, 6000 points
- end: by Sub-D 9-pin plug
- the remote control can be held in the hand or wrapped around the forearm to help with taking measurements



RCP-02

- extra battery pack



RCP-03

- extra batteries charger



RCP-04

- length: 12 metres
- end: measuring cable (4 male pins/4 female pins)
- 12-metre extension cable for RCP2A remote control and measuring cable



RCP-05

- case in glass fiber
- dimensions: 660 x 460 x 180mm
- weight: 7 kg
- this case is adapted for transporting accessories for the RCP-06



RCP-06

- length: 15 metres
- end: measuring cable (3 male pins/3 female pins)
- 15-meters extension cable on drum for CO8, CO10 or CO255



RCP-07

- length: 90 metres
- end: measuring cable (3 male pins/3 female pins)
- 90-meters extension cable on drum and trolley for CO8, CO10 and CO255



RCP-08

- Remote control/PC adapter with power supply



RCP-09

- RCP2A software with PC link cord CO179A
- test sequence, user management, user-friendly interface with only 4 buttons, easy data loading/unloading
- type: software operating in Windows TM XPPRO and Windows 7



RCP-10

- length: 20 meters with base
- end: base with 3 male pins/plug with 3 female pins
- 20-meters extension cable on drum with base

RCP-11

- length: 20 meters with base
- end: measuring cable (Plug with 3 male pins/plug with 3 female pins)
- 20-meters extension cable on drum with base



RCP-14

- length: 30 cm
- end: measuring cable (plug with 3 male pins/plug with 4 female pins)
- Jaeger adaptor to connect a second probe



SEFELEC RCP2A

Milliohmmeter

RCP-15

- protection cover
- dimensions: 340 x 120 x 60mm
- weight: 1.5 kg
- front protection



RCP-21

- USB converter (2 ports)

RCP-24

- bag for accessories



RCP-27

- battery pack discharger/
charger for RCP2A

ACCESSORIES

TE28/1

- length: 3 meters
- end: 1 male 4-pin plug
- bipolar juxtaposed probe tips
- metallizing measuring cord with remote control



TE9/JE

- length: 3 meters
- end: 1 male 3-pin plug
- measuring cord (2 wires) equipped with a probe with bipolar spots

TE9-1

- length: 3 meters
- end: 1 male 4-pin plug
- retractable concentric probe tips
- measuring cord (2 wires) equipped with a probe with bipolar spots (length 180 mm)



CO8

- length: 12 meters
- end: 1 male 3-pin plug
- small clamp
- return current measuring cord



CO9

- length: 20 meters
- end: 1 male 3-pin plug
- extension cord



CO10

- length: 12 meters
- end: 1 male 3-pin plug
- large clamp with tripolar probe tips
- return current measuring cord



CO179A

- usable between the RCP2A and the PC
- length: 2.50 m
- end: 9 SUB-D male/female pins
- type: link cord between PC and RCP2A



CO250

- length: 2.50 m
- end: 1 male 4-pin plug
- kelvin crocodile clamp, 3 banana plugs and probe tips



CO251

- length: 3 meters
- end: 1 male 4-pin plug
- retractable concentric probe tips
- measuring cord (2 wires) equipped with a probe with bipolar spots (length 150 mm)



SEFELEC RCP2A

Milliohmimeter

CO255

- length: 2 meters
- end: 1 male pin plug
- small kelvin type clamp
- return current measuring cord



CO258

- length: 3 meters
- end: 1 male 4-pin plug
- retractable concentric probe tips
- measuring cord (2 wires) equipped with a probe with bipolar spots (length 180 mm)



CO262

- length: 3 meters
- end: 9 SUB-D pins/15 SUB-D pins
- link cord between RCP-01 (Remote control) and PC (included in the RCP-01)



RCP-91

calibration box for RCP2A



RCP-17

1 mΩ check shunt 0.5%

RCP-18

5 mΩ check shunt 0.5%

RCP-19

10 mΩ check shunt 0.5%

RCP-20

50 mΩ check shunt 0.5%

RCP-26

100 mΩ check shunt 0.5%

