



## Specialist in residual-current devices

### Features

- **Testing RCD breakers of AC, A, B types**
  - Testing of general, short delay and selective RCDs for the rated current values 10, 15, 30, 100, 300, 500 mA
  - Measurement of  $I_A$  trip current and tripping time  $t_A$  for currents  $0.5 I_{\Delta n}$ ,  $1 I_{\Delta n}$ ,  $2 I_{\Delta n}$ ,  $5 I_{\Delta n}$
  - $R_E$  and  $U_B$  measurement without RCD tripping
  - Extended AUTO function of RCD measurement, with the possibility of measuring  $Z_{L-PE}$  with low current
  - Measurement of  $I_A$  and  $t_A$  during one RCD tripping



### Additional functions

- Checking the correctness of PE connection using a contact electrode
- Measurement of voltage (0 ... 500 V) and network frequency
- Memory of 990 results
- Wireless data transmission to a computer
- Backlit keypad



## Application areas

The meter enables the user to measure the parameters of residual-current devices (RCDs), such as time or operating current. The device is useful for testing electrical systems with circuits protected by RCDs of AC, A and B type.

## Increased resistance to environmental conditions

The meter will cope well in difficult environmental conditions. Protection against penetration of dust and water is ensured by a unique housing with a level of protection IP67.

## Communication and software

You can easily transfer measurement data to your computer via wireless communication. In order to generate a report on measurements for electric shock protection, use **Sonel Reports PLUS** software. Saving the downloaded data to the simplest formats and printing is provided by free **Sonel Reader** software.

## Specifications

Measurement functions	Measurement range	Display range	Resolution	Accuracy ±(% m.v. + digits)
<b>Measurements of RCD parameters</b>				
RCD tripping test and measurement of tripping time $t_A$ measuring current $0.5 I_{\Delta n}$ , $1 I_{\Delta n}$ , $2 I_{\Delta n}$ , $5 I_{\Delta n}$				
general and short-time delay RCD	0 ms...300 ms	0 ms...300 ms	1 ms	±(2% m.v. + 2 digits)
selective RCD	0 ms...500 ms	0 ms...500 ms	1 ms	±(2% m.v. + 2 digits)
Measurement of RCD tripping current $I_A$ measuring current $0.15 I_{\Delta n}$ ... $2.0 I_{\Delta n}$				
for sinusoidal residual current (AC type)	3.0 mA...500 mA	3.0 mA...500 mA	from 0.1 mA	±5% $I_{\Delta n}$
for unidirectional residual current and unidirectional with the 6 mA DC bias (type A)	1.5 mA...420 mA	1.5 mA...420 mA	from 0.1 mA	±10% $I_{\Delta n}$
for direct residual current (type B)	2.0 mA...600 mA	2.0 mA...600 mA	from 0.1 mA	±10% $I_{\Delta n}$

## Technical data

### Safety and operating conditions

Measuring category acc. to EN 61010

IV 300 V, III 600 V

Ingress protection

IP67

Type of insulation acc. to EN 61010-1 and IEC 61557

double

Dimensions

220 x 98 x 58 mm | 8.7" x 3.8" x 2.3"

Weight

ca. 0.7 kg | 1.5 lbs

### Memory and communication

Memory

990 cells, 10 000 records

Data transmission

radio

### Other data

The product meets the EMC (emission for industrial environment) requirements according to standards

EN 61326-1  
EN 61326-2-2

"m.v." - measured value

## Standard accessories



**Test lead 1.2 m  
(banana plugs)  
red / blue / yellow**

WAPRZ1X2REBB  
WAPRZ1X2BUBB  
WAPRZ1X2YEBB



**Pin probe 1 kV  
(banana socket)  
red**

WASONREOGB1



**Crocodile clip  
1 kV 20 A yellow**

WAKROYE20K02



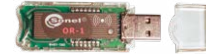
**M1 hanging straps**

WAPOZSZE4



**M6 carrying case**

WAFUTM6



**OR-1 USB wireless  
receiver**

WAADAUSBOR1



**4x LR6 1.5 V battery**



**Factory calibration  
certificate**

## Optional accessories



**TWR-1J  
RCD breaker  
testing adapter**

WAADATWR1J



**WS-01 adapter  
with START button  
(UNI-Schuko plug)**

WAADAWS01US

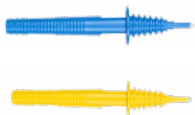
**WS-05 adapter  
(UNI-SCHUKO  
angular plug)**

WAADAWS05US



**Crocodile clip 1 kV  
20 A red / blue**

WAKRORE20K02  
WAKROBU20K02



**Pin probe 1 kV  
(banana socket)  
blue / yellow**

WASONBUOGB1  
WASONYEOGB1



**Foldable pin  
probe, 1 kV, 2 m  
(banana socket)**

WASONSP2M



**Test lead for fault  
loop measurement  
(banana plugs)  
5 m / 10 m / 20 m**

WAPRZ005REBB  
WAPRZ010REBB  
WAPRZ020REBB



**Industrial socket  
adapter 16 A / 32 A**

WAADAAGT16T  
WAADAAGT32T



**Three-phase socket  
adapter 16 A / 32 A**

WAADAAGT16C  
WAADAAGT32C



**Three-phase socket  
adapter 16 A / 32 A**

WAADAAGT16P  
WAADAAGT32P



**Three-phase socket  
adapter 63 A**

WAADAAGT63P



**M1 hanging  
hook straps**

WAPOZUCH1



**Calibration certificate  
with accreditation**