



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 $I_{\Delta n}$ 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 $I_{\Delta n}$ 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 $\pm(\% \text{ m.v.} + \text{digits})$
Measurements of RCD parameters				
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	$\pm(2\% \text{ m.v.} + 2 \text{ digits})$
selective RCD	0 ms...500 ms	0 ms...500 ms	1 ms	$\pm(2\% \text{ m.v.} + 2 \text{ digits})$
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	$\pm 5\% I_{\Delta n}$
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	$\pm 10\% I_{\Delta n}$
for direct residual current (type B)	2.0 mA...600 mA	2.0 mA...600 mA	from 0.1 mA	$\pm 10\% I_{\Delta n}$

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
Weight	ca. 0.7 kg

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
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Standard accessories



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

WAADAWS05



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

WAPRZ1X2REBB
WAPRZ1X2BUBB
WAPRZ1X2YE8B



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

WASONRE0GB1



**Crocodile clip
1 kV 20 A yellow**

WAKROYE20K02



M1 hanging straps

WAP0ZSZE4



M6 carrying case

WAFUTM6



**OR-1 USB wireless
receiver**

WAADAUSB0R1



4x LR6 1.5 V battery



**Calibration
certificate**

Optional accessories



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

WAADATWR1J



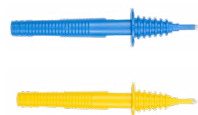
**WS-01 adapter
with START button
(UNI-Schuko plug)**

WAADAWS01



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

WAKRORE20K02
WAKROBU20K02



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

WASONBU0GB1
WASONYE0GB1



**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**

WAP0ZUCH1



**Calibration certificate
with accreditation**