



index: WMUSMMR640













Low resistance within range

Product features

- measurement of very low resistance
- high immunity to disturbances
- easy operation
- big touchscreen
- automatic measurement mode
- autoranging

Application

The MMR-640 meter is designed to measure very low resistance of resistive objects. This product is made to be used in power plants, railways and maintenance companies to measure resistance of:

- · breakers, contacts,
- · earthing conductors, equipotential bondings,
- · welded and soldered connections,
- · bolted connections,
- and other resistive objects.

MMR-640 can be also utilized on production lines (eg. at the final production control stage).

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Device capabilities

The MMR-640 meter provides an innovative combination of a high-performance measuring device with a modern user interface and advanced data management system.

Durable and practical casing

In response to the customers needs the MMR-640 has been designed to operate in difficult environmental conditions. A unique casing with the IP67 ingress protection rating ensures that the device is both waterproof and dustproof.

Easy readout

The MMR-640 meter is equipped with a readable colour touchscreen that, due to its 800 x 480 pixel resolution, provides both high comfort of interacting with the interface and high readability of the measurement results.













Possibility of setting limits

Readable interface

Extensive memory

Resolution **Test current** Range **Accuracy** $0...999.9 \mu\Omega$ $0.1 \mu\Omega$ 1.0000...1.9999 mΩ $0.0001 \, m\Omega$ 10 A $2.000...19.999 \, m\Omega$ $0.001 \, m\Omega$ 20.00...199.99 mΩ $0.01~\text{m}\Omega$ 10 A / 1 A $200.0...999.9 \ m\Omega$ $0.1 \, \text{m}\Omega$ ±(0.25% m.v. + 2 digits) 1 A / 0.1 A 1.0000...1.9999 Ω 0.0001 Ω $2.000...19.999 \Omega$ $0.001~\Omega$ 0.1 A $20.00...199.99\ \Omega$ $0.01~\Omega$ 10 mA

"m.v." - measured value.

 $200.0...1999.9 \Omega$

Resistance measurement

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1 mA

0.1 Ω

Technical specification

insulation type according to EN 61010-1		doubl
measurement category acc. to EN 61010-2-030		III 600
ingress protection according to EN 60529	with closed housing	IP6
	with open housing, powered from the battery pack, installed plugs	IP5
	with open housing, powered from main and/or without plugs	ns P4
protection against external voltage		up to 600 V AC for 10
power supply to battery charger		90 V265
		50 Hz60 H 2
battery charging time		ca. 3.5
number of measurements (of resistive objects) with		
10 A current performed when powered from the battery pack		700800 depending on the ambient temperatur
maximum wire resistance for 10 A current		300 m
time of performing the resistance measurement	with selected resistive object type and bidirectional current flow	3
	with selected inductive object type, dependent on the resistance and inductance of the object	5 s or mor
dimensions		318 x 257 x 152 mr 12.5" x10.1" x 6.0
meter weight		ca. 3.5 k ca. 7.7 lb
operating temperature		-10°C+50° 14°F122°
charger operating temperature		0°C45° 32°F113°
storage temperature		-20°C+60° -4°F+140°
humidity		20%90
reference temperature		23°C ± 2° 73.4°F ± 3.6°
reference humidity		40%60
temperature coefficient		$\pm 0.01\%$ of ^{d.v.} / $_{^{\circ}C}$ ± 0.1 ^{digit} / $_{^{\circ}}$
time to AUTO-OFF	545 m	inutes or option not active, depending on the settin
TFT graphic display		800 x 480 pixel
interface standard		US
quality standard		design and manufacturing are ISO 9001 compliar
the product meets the EMC requirements (emission for industrial environment) according to		EN 61326-1 and EN 61326-2-
compliance with FCC Rules		Class A digital devic

"d.v." - displayed value page 3 / 4 sonel.com

Standard accessories



Kelvin crocodile (2 pcs)

WAKROKELK06



3 m doublewire test lead

U1/I1 WAPRZ003DZBBU1I1

U2/I2 WAPRZ003DZBBU2I2



L-11 carrying case

WAFUTL11



Li-Ion recharge-able battery 7.2 V

WAAKU27

USB cable

WAPRZUSB



Mains cable -IEC C13 plug

WAPRZ1X8BLIECUSA



Factory calibration certificate

Additional accessories



Double pin Kelvin probe (2 pcs.)

WASONKEL20GB



10 m / 15 m doublewire test lead

WAPRZ010DZBBU1I1 WAPRZ015DZBBU1I1

U2/I2 WAPRZ010DZBBU2I2 WAPRZ015DZBBU2I2

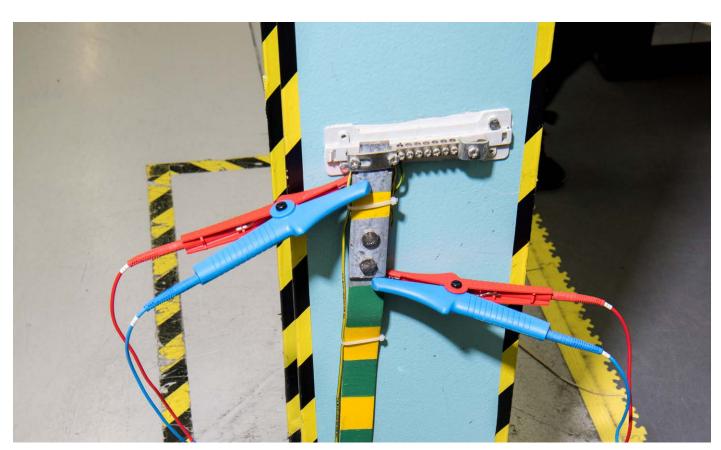


Kelvin clamp with cables

WAZACKEL1



Calibration certificate with accreditation



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