





Low Resistance Meter

MMR-640

index: WMGBMMR640

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).



Device capabilities

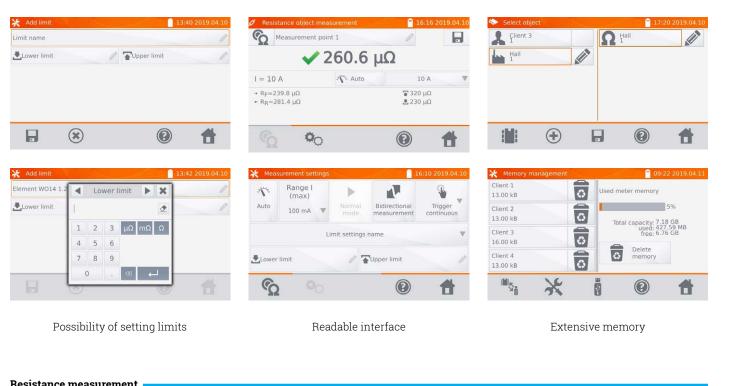
The MMR-640 meter provides an innovative combination of a high-performance measuring device with a modern user interface and advanced data management system.

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.



Range	Resolution	Test current	Accuracy
0999.9 μΩ	0.1 μΩ	10 A	
1.00001.9999 mΩ	0.0001 mΩ		±(0.25% m.v. + 2 digits)
2.00019.999 mΩ	0.001 mΩ		
20.00199.99 mΩ	0.01 mΩ	10 A / 1 A	
200.0999.9 mΩ	0.1 mΩ	1 A / 0.1 A	
1.00001.9999 Ω	0.0001 Ω		
2.00019.999 Ω	0.001 Ω	0.1 A	
20.00199.99 Ω	0.01 Ω	10 mA	
200.01999.9 Ω	0.1 Ω	1 mA	

Technical specification

insulation type according to EN 61010-1		doub
measurement category acc. to EN 61010-2-030		III 600
	with closed housing	IP6
ingress protection according to EN 60529	with open housing, powered from the battery pack, installed plugs	IPS
	with open housing, powered from mains and/or without plugs	P4
protection against external voltage		up to 600 V AC for 10
		90 V265
power supply to battery charger		50 Hz60 F 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 temperatu
maximum wire resistance for 10 A current		300 m
	with selected resistive object type and bidirectional current flow	3
time of performing the resistance measurement	with selected inductive object type, dependent on the resistance and inductance of the object	5 s or mo
dimensions		318 x 257 x 152 m 12.5" x10.1" x 6.
meter weight		ca. 3.5 k ca. 7.7 lt
		-10°C+50'
operating temperature		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		±0.01% of ^{d.v.} / _{°C} ± 0.1 ^{digit} /.
time to AUTO-OFF	545 minutes or option not active, depending on the settir	
TFT graphic display		800 x 480 pixe
interface standard		US
quality standard	C	lesign and manufacturing are ISO 9001 complia
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

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 WAPRZ1X8BLIEC

Factory calibration certificate

Additional accessories



Double pin Kelvin probe (2 pcs.) WASONKEL20GB



10 m / 15 m doublewire test lead

U1/I1 WAPRZ010DZBBU1I1 WAPRZ015DZBBU1I1

U2/I2 WAPRZ010DZBBU2I2 WAPRZ015DZBBU2I2



Kelvin clamp with cables WAZACKEL1



Calibration certificate with accreditation

