ElMeS™ resistance meter

Advantages

- Self-monitoring and regulation of the measuring current by microprocessor
- Four-wire measurement
- Optimised for measuring inductive components such as windings
- Can be used for protective conductor testing
- Web interface as monitoring interface for easy diagnostics
- Can be operated using the integrated LCD and keypad
- Compact housing
- Ethernet port with switch function
- Standard http programming
- Suitable for continuous operation for long-term measurements

...as a built-in device

The fully electronically regulated and microprocessor-controlled ElMeS™ resistance meter is designed for semi-automatic and fully automatic testing applications as well as for manual testing.

The device is used to precisely measure the ohmic resistance of electrical devices, cables, components or assemblies. With a measuring current of up to 2 A DC, this resistance meter can be used to perform measurements on low-resistance specimens and even carry out protective conductor tests.

The ElMeS™ resistance meter has an LC display with operating buttons for easy commissioning. It also provides a convenient web interface for operation and monitoring.

ElMeS™ – resistance meter

ElMeS™ resistance meter

Technical data			
Measurement	Measuring ranges	20 mΩ	0–2 A
		200 mΩ	0–2 A
		2 Ω	0–2 A
		20 Ω	0–200 mA
		200 Ω	0–20 mA
		2 kΩ	0–2 mA
		20 kΩ	0–5 µA
		200 kΩ	0–5 µA
		2 MΩ	0–2 µA
		20 MΩ	0–0.2 µA
	Measuring accuracy	±0.1% of the range	
Measurement technology	Four-wire measurement technology: Testing with separate current and voltage measurement paths		
Specimen connection	Four-pole RM 3.5 plug connector or four individually pluggable 4 mm panel jacks		
Temperature sensor	PT100, channel 1	Four-wire measurement, four-pole RM 2.5 plug connector	
	PT100, channel 2	Four-wire measurement, M12 plug connector	

General data		
Interfaces	Ethernet	http, web interface
	Status indication	4 LEDs
	LCD	Dot matrix graphic display
	Digital I/O	8 digital outputs
Power supply	Input voltage range	100–240 V AC 50/60 Hz
	Power consumption	Max. 40 V A
	Internal protection	5 x 20 mm, T1A, 250 V AC
	Overvoltage category	II
Mains connection	Plug with switching characteristic	Neutrik power CON NAC3FX-W-TOP
Dimensions and weights	Dimensions	Width: 275 mm, height: 95 mm, Depth: 200 mm (plus plug)
	Weight	1.3 kg
Operating conditions	Installation location	Indoors, no hazardous areas
	Ambient temperature	5 °C to 40 °C
	Relative humidity	80% at temperatures up to 31 °C, linear decline to 50% at 40 °C
	Installation height	< 2000 m above sea level
	Degree of pollution	2
	Degree of protection	IP20
	Duty cycle	100%

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