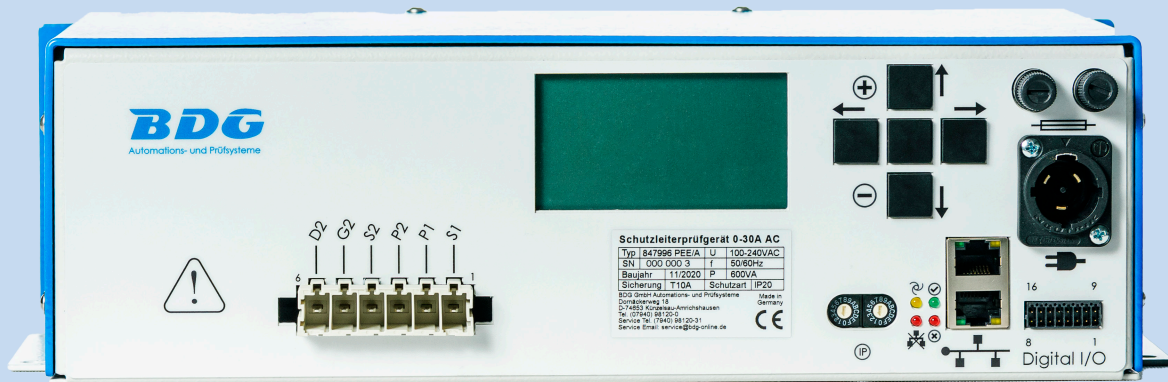


ElMeS™ AC protective conductor tester



...as a built-in device

The fully electronically regulated and microprocessor-controlled ElMeS™ AC protective conductive tester is designed for semi-automatic and fully automatic testing applications as well as for manual testing.

The device is used to test whether the specimen's protective conductor system is working properly. For this purpose, the device generates an electronically stabilised sinusoidal alternating current of up to 30 A RMS and monitors the protective conductor resistance during the test period.

Contact monitoring and glow wire detection are also integrated and can be activated.

An optional PE test gun is available for manual testing.

The device has an LC display with operating buttons for easy commissioning.

The ElMeS™ AC protective conductor tester is easy to operate using an integrated LC display. It also provides a convenient web interface for operation and monitoring.

Advantages

- Self-monitoring and regulation of the measuring current by microprocessor
- Precise current regulation
- Web interface as monitoring interface for easy diagnostics
- Can be operated using the integrated LCD and keypad
- Web interface as monitoring interface for easy diagnostics
- Glow wire detection by measuring the change in resistance
- Compact housing
- Ethernet port with switch function
- Standard http programming
- Suitable for continuous operation for long-term measurements

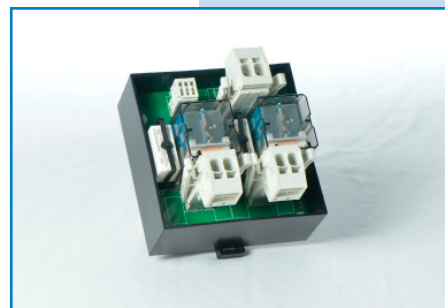
ElMeS™ – AC protective conductor tester

Technical data		
Test current (AC)	Setting ranges	Variable, 0 A to 30 A, open-circuit voltage < 4 V
	Regulation	The test current is electronically stabilised and monitored during the entire test period
	Measuring range	0 A–30 A
	Uncertainty of measurement	±0.1% of the range
	Resolution	1 mQ
Resistance evaluation	Measuring ranges	0 M ohm–6000 M ohm
	Uncertainty of measurement	Up to 500 M ohm, 0.5% of measured value ±2 M ohm From 500 M ohm, 1% of full-scale value
	Resolution	1 M ohm
Voltage evaluation	Measuring range	0.001 V–15.00 V
	Uncertainty of measurement	< 1% of the measured value
	Resolution	1 mV
Test period	Adjustment range	0.01 s–10,000 s
	Resolution	0.01 s
Measurement technology	Four-wire measurement technology: Testing with separate current and voltage measurement paths	
Specimen connection	6-pin high-current plug connector for current +/- and sense +/- and test probe	

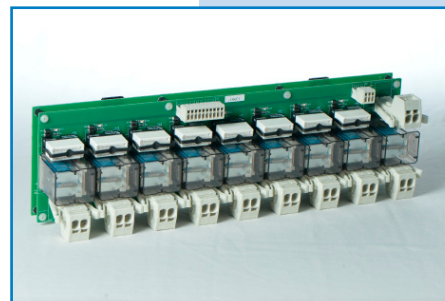
General data		
Interfaces	Ethernet	http, web interface
	Status indication	4 LEDs
	LCD	Dot matrix graphic display
	Digital I/O	8 digital outputs
Power supply	Input voltage range	100–240 VAC, 50/60 Hz
	Power consumption	Max. 700 W
	Internal protection	5 x 20 mm, T10A, 250 VAC
	Overvoltage category	II
Mains connection	Plug with switching characteristic: Neutrik power CON NAC3FX-W-TOP	
Dimensions and weights	Dimensions	320 mm x 95 mm x 185 mm
	Weight	4.2 kg
Safety	Overload protection	Temperature monitoring
	Open-circuit voltage	< 4 V corresponds to < 6 V and < 12 V
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%



ElMeS™ AC protective conductor tester, 0–30 A



2-way specimen connection



8-way specimen connection



Handheld test probe for manual contacting