



The sheath fault location system with bi-polar measuring voltage method – easy, precise and fast

Special features

- Testing, prelocation and pinpointing of sheath faults
- Voltage up to ± 10 kV DC
- High current of up to 750 mA
- Only one HV connection cable
- Automatic measurement and protocolling

Description

The intuitive menu-driven operation of the **MFM 10** with fully automatic measurement and evaluation enables the testing of cable sheaths as well as the prelocation and pinpointing of cable sheath faults in the most simple way possible.

The entry of data is done according to the well-proven SebaKMT rotary encoder principle and is supported by a touch screen.

The very powerful 10 kV DC source with positive and negative polarity allows the testing of HV cables. The bi-polar function ensures the elimination of external thermoelectric and galvanic influences. A multi-section facility permits the entry of cable segments with different parameters.

The available high current of up to 750 mA enables also the “burning” of difficult cable faults.

Integrated protocolling feature in combination with the approved Easyprot Software for an easy and reliable test generation.



Supported by:



on the basis of a decision
by the German Bundestag



Technical data

Functions	Testing, prelocation and pinpointing, burning, direct resistance measurement, voltage and current limiter, quick event/transient recognition
Display	5.7" 320 x 240; LCD, LED backlight
User interface	Rotary encoder & touch screen
Output voltage	0 ... 10 kV DC, bipolar
Output current	750 mA@ 0.4 kV, 200 mA@ 0.4 ... 1.5 kV 60 mA@ 5 kV, 30 mA@ 10 kV
Pinpointing	0 ... 10 kV DC pulsed
Pulse rates	0.5:1; 1:2; 1.5:0.5; 1.5:3.5 4.8 Hz for the use with A-Frame
Accuracy	±0,1%
Audio frequency (option)	8.44 kHz, 15 W
Protocolling	Easyprot via USB stick
Mains supply	88...264 V, 50...60 Hz, 800 VA
Battery	NIMH, 340 Wh, for all operations
DC supply	12 V ... 24 V DC / charge only
Max. discharge capacity	10 µF
Operation conditions	-25 °C ... +55 °C, 93% rel. humidity
Dimensions	500 x 457 x 305 mm
Weight	25 kg including cable
Protection class	IP53, with lid closed

Scope of delivery

- » MFM 10
- » Set of connection cables
- » USB stick with Easyprot Software
- » Accessory bag



All features at a glance

- » Solid IP53 PELI trolley case – easy handling
- » Wide range input for all supply voltages
- » Powerful rechargeable battery
- » Improved prelocation with voltage drop method
- » Highest accuracy by bi-polar measurement
- » Independent from the resistance of supplementary wires and test leads
- » Very fast and fully automatic measurement
- » Detection, storage and indication of fast events
- » Protocolling by Easyprot Software
- » Burning
- » Slim HV connector and just one cable
- » Detection of correct hook-up to cable under test
- » Fault locating of high-resistive faults inside cables
- » Integrated discharge
- » Graphical display of voltage and current
- » Detection of multiple faults
- » Very fast pulse rate of 0.5:1 in connection with the ESG NT

Options

- » 19" version for vehicle installation (no battery)
- » ESG NT earth fault probe for DC step voltage
- » 10 m HV connection cable
- » Connection clamps for large terminals
- » Audio frequency option

