



MFM 10

The Sheath Fault Location System with bi-polar voltage drop method
Testing, Prelocation and Pinpointing of sheath faults. Easy, precise and fast.

Benefits

- ▶ Voltage up to ± 10 kV DC
- ▶ Up to 750 mA continuous current
- ▶ Only one HV connection cable
- ▶ Operation by rotary encoder and touch screen
- ▶ Automatic measurement and protocolling

Description

The intuitive menu guided operation of the MFM 10 with fully automatic measurement and evaluation permits in the easiest way the testing of cable sheaths and prelocation and pinpointing of cable sheath faults.

The entry of data happens via the long approved SebaKMT Jogdial principle supported by a touch screen. A multi section facility permits the entry of cable segments with different parameters.

The very powerful 10 kV DC source with positive and negative polarity allows the testing of HV cables, even with thicker outer sheath, and the bipolar function permits the elimination of external thermoelectric and galvanic influences.

The available high current of up to 750 mA enables even the burning of difficult sheath faults.

The integrated protocolling feature provides in combination with the approved Easyprot Software an easy and reliable report generation.

All Features at a glance

- ▶ Solid IP54 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 1 cable
- ▶ Detection of correct hook-up to cable under test
- ▶ Fault locating of high resistive faults inside cables
- ▶ Integrated discharge



Technical Data MFM 10

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 and touch screen
Output voltage	0 ... 10 kV DC, bipolar
Output current	750 mA@0,4 kV, 60 mA@5 kV, 30 mA@10 kV
Pinpointing	0 – 10 kV DC pulsed
Accuracy	$\pm 0.1\%$
Definable cable sections	50 sections
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 μ F
Op. conditions	-25 °C ... +55 °C, 93% rel. hum.
Dimensions	500 x 457 x 305
IP rating	IP 54, with lid closed
Weight	20 kg

Scope of delivery

- ▶ MFM 10
- ▶ Set of connection cables
- ▶ USB Stick with Easyprot Software
- ▶ Accessory bag

Options MFM 10

- ▶ ESG 80 Earth fault probe for DC step voltage