



MFM 10

The Sheath Fault Location System with bi-polar measuring voltage

Testing, Prelocation and Pinpointing of sheath faults. Easy, precise and fast.

Benefits

- ▶ Voltage up to ± 10 kV DC
- ▶ Precise prelocation by bi-polar measurement
- ▶ Only one HV connection cable
- ▶ Operation by rotary encoder and touch screen
- ▶ 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 touchscreen.

The very powerful 10 kV DC source with positive and negative polarity allows the testing of HV cables. The bi-polar prelocation 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 cable faults.

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

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
- ▶ 4.8 Hz signals for the support of Vivax and Metrotech A-Frames



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, 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-Frames
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 mm
IP rating	IP 53, with lid closed
Weight	25 kg including cable

Scope of delivery

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

Options MFM 10

- ▶ ESG Earth fault probe for DC step voltage
- ▶ 10 m HV connection cable
- ▶ Connection clamps for large terminals