



## MFM 10

The Sheath Fault Location System with the long approved voltage drop method

### Benefits

- ▶ Voltage up to  $\pm 10$  kV DC
- ▶ Up to 750 mA continuous current
- ▶ Only one HV connection cable
- ▶ EasyGo rotary encoder and touch screen
- ▶ Automatic measurement and protocolling

The undamaged outer sheath is an essential requirement for the undisturbed and continuous operation of power cables but also for cables in the signal- and telecommunication area.

### Description

The MFM 10 is a sheath fault location system of the latest generation. The menu guided operation with a 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 with support by a touch screen function. The multi section facility permits the entry of cable segments with different parameters.

The powerful 10 kV DC source with positive and negative polarity allows the testing of HV cables 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 protocolling feature provides in combination with the approved Easyprot Software an easy and reliable report generation.

### All Features at a glance

- ▶ SolidIP54 PELI trolley case – Easy handling
- ▶ Wide range input for all supply voltages
- ▶ Powerful rechargeable battery
- ▶ Prelocation with the approved voltage drop method
- ▶ Pinpointing also with A-Frame with 4.8 Hz
- ▶ Highest accuracy
- ▶ Independent from the resistance of the supplementary wires and test leads
- ▶ Very fast and fully automatic measurement
- ▶ Detection, storage and protocol of fast events
- ▶ Protocolling including Easyprot Software
- ▶ High output power
- ▶ Burning
- ▶ Bipolar measurement
- ▶ Truly weather proof and robust
- ▶ 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 / 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 Option 4,8 Hz for A-Frame use
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. capacity	10 $\mu$ 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

### Options MFM 10

- ▶ ESG 80 Earth fault probe
- ▶ ESG New
- ▶ A-Frame

### Scope of delivery

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