

MFM 10-1

Mobile, battery operated sheath fault location system up to ± 10 kV DC

Megger[®]



- Testing, prelocation and pinpointing of sheath faults
- High current of up to 750 mA
- Only one HV connection cable
- Automatic measurement and protocolling
- Safe operation via connection box
- In line with DIN EN 50191, VDE 0104 and BGI 891

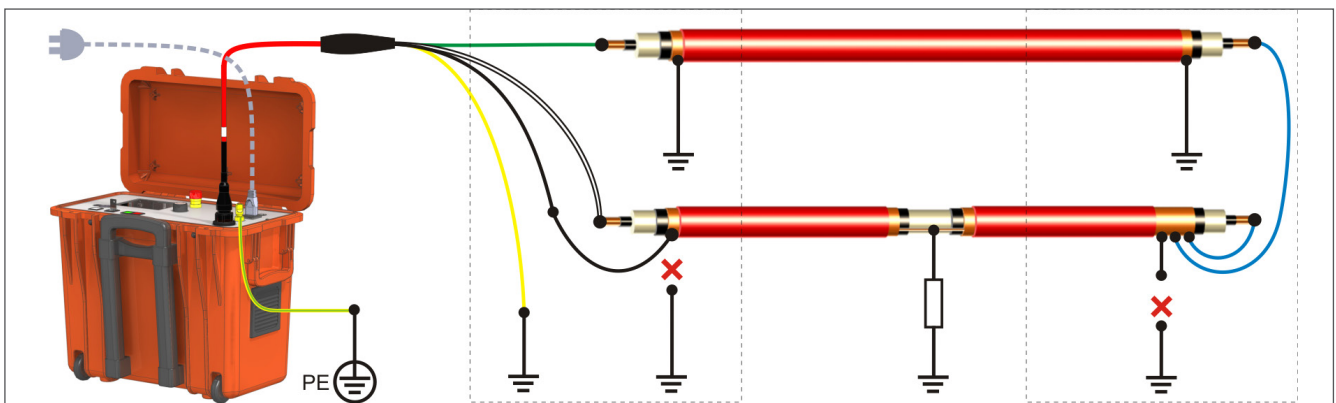
DESCRIPTION

The MFM 10-1's intuitive menu-driven operation and automatic measurement and evaluation system enables cable sheaths to be tested and sheath faults to be pre-located and pinpointed as simply as possible. Data is entered using the proven Megger rotary encoder principle and is supported by a touch screen.

The very powerful 10 kV DC source with positive and negative polarity allows HV cables to be tested. The

bi-polar function ensures that external thermoelectric and galvanic influences are eliminated. A multi-section facility permits the entry of cable segments with different parameters. Difficult cable faults can be "burned" thanks to the available high current of up to 750 mA.

MFM 10-1 can also use its integrated protocolling feature with the approved EasyProt software to easily generate test reports.



Connection plan

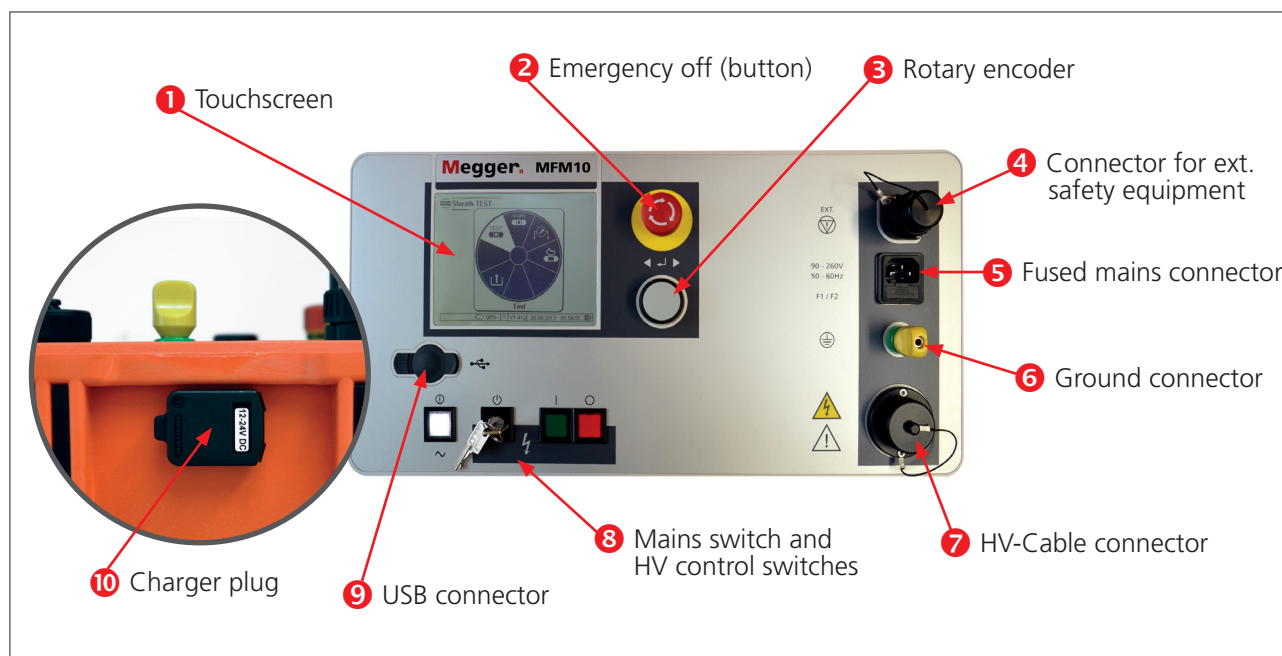
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ALL FEATURES AT A GLANCE

- 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 HV cable
- Fault locating of high-resistive faults inside cables
- Integrated discharge up to 10 μ F
- Graphical display of voltage and current
- Very fast pulse rate of 0.5:1 in connection with the ESG NT2

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	$\pm 0,1\%$ for the fault location relative to the cable length
Protocolling	EasyProt Software 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
Operation conditions	- 25 °C ... + 55 °C, 93 % rel. humidity
Dimensions	500 x 457 x 305 mm
Weight	25 kg including cable
Protection class	IP 53, with lid closed



ORDERING INFORMATION

Sets:	Description	Order No.
MFM10-1 Standard set	consisting of: MFM10-1 sheath fault locator, USB stick with EasyProt software for data transfer and test report generation, KST10 Velcro bag, VL MFM10 cable set (mains lead EU/UK/US, HV test lead 5 m, ground lead 5 m, crocodile clamps green/yellow blue, measuring lead blue, automotive adapter)	1015503
Option		
ESG NT2	Ground fault locator	1014430
Test leads (optional):		
HSK_36_5	HV test lead 5 m	90035172-001
HSK_36_10	HV test lead 10 m	118307484-001
HSK_36_15	HV test lead 15 m	2003858-001
HSK_36_20	HV test lead 20 m	2003859-001
Accessories (optional):		
External emergency switchbox		2010012
Connection cable 5 m for external emergency switchbox		820003129
Connection set for HV connections	8 clamps, 2 test-leads	118308004


19" version for vehicle

ESG NT2 earth fault probe for DC step voltage

Test lead 5, 10, 15, 20 m

Connection set for HV connections

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ISO 9001

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