

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

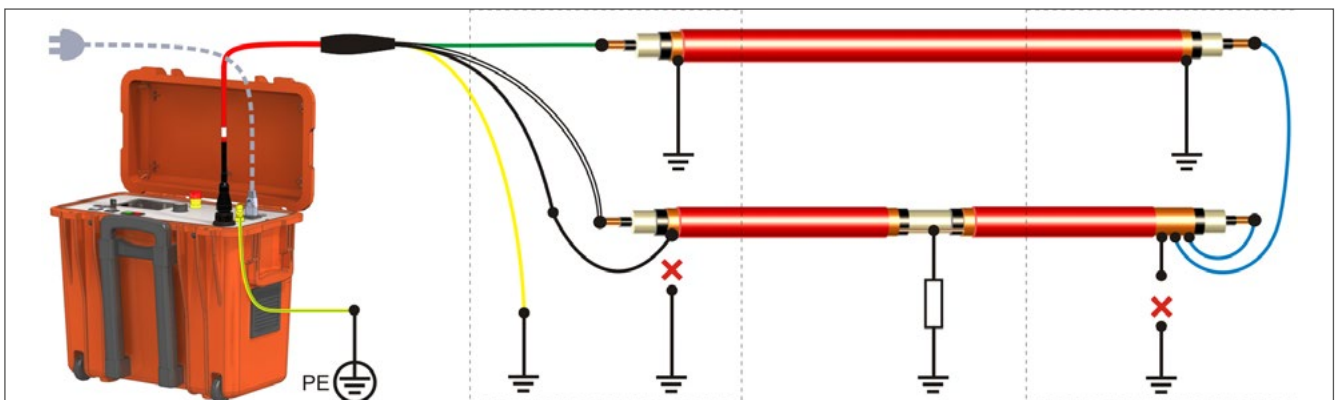
DESCRIPTION

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 NT

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

0 ... 10 kV DC pulsed

0,5:1; 1:2; 1,5:0,5; 1,5:3,5

Pinpointing

Pulse rates

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

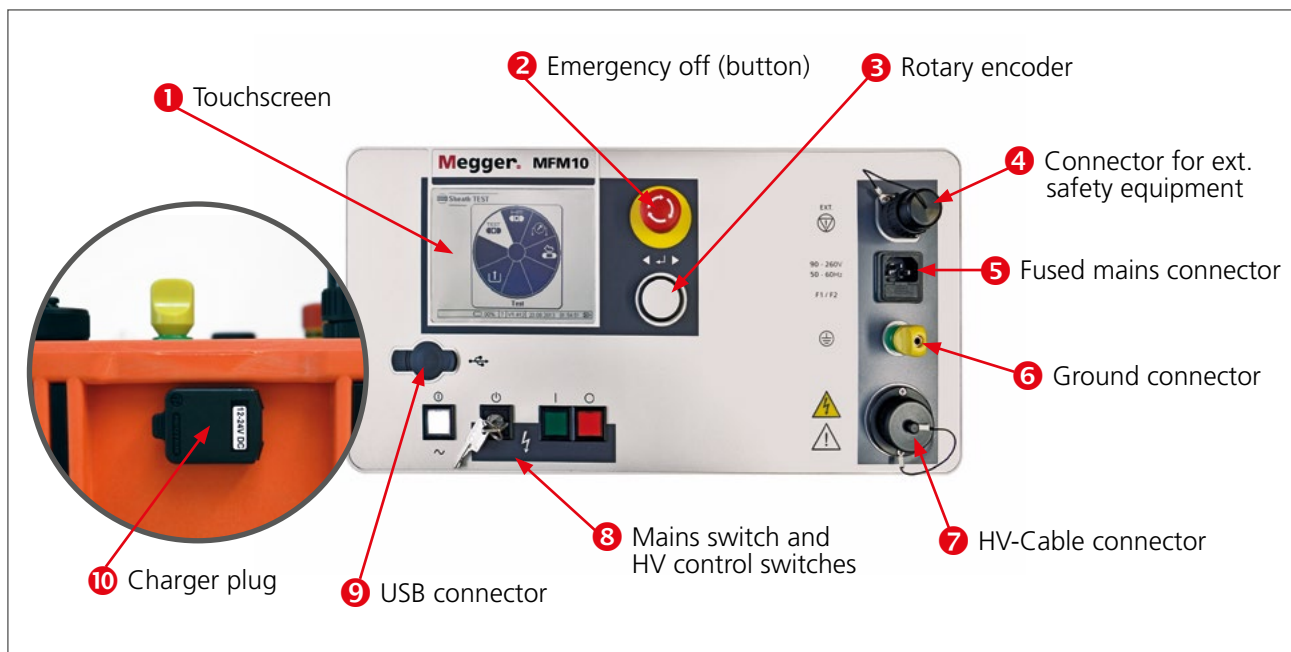
500 x 457 x 305 mm

Weight

25 kg including cable

Protection class

IP 53, with lid closed



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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 4 m, ground lead 5 m, crocodile clamps green/yellow blue, measuring lead blue, automotive adapter)	1012572
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
HV connection set for large terminals		118308004



19" version for vehicle



ESG NT earth fault probe for DC step voltage



Test lead 5, 10, 15, 20 m



HV connection set for large terminals

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ISO 9001
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