



## MFM 5-1

**Cable sheath testing as well as sheath fault prelocating and pinpointing**

### Benefits:

- ▶ Fully automatic prelocation of sheath faults
- ▶ Gentle sheath fault location due to power limiting
- ▶ Userfriendly menu-operation



### Description

An intact sheath of a plastic insulated medium voltage cable is the prerequisite for the avoidance of water ingress and subsequent cable faults. The MFM 5-1 is a universal test instrument for sheath testing including prelocation and pinpointing of location of a sheath fault. In the sheath testing mode, current measurements with 1 and 10 mA full deflection can be carried out, permitting a detection of even minute insulation damage of the cable sheath.

The instrument is very easy to use, being menu-driven. To get precise results of the fully automatic prelocation, only entering the total cable length is needed. The instrument will carry out a self-calibration, conduct a double measurement and display the result directly in metres.

### Features

- ▶ Sheath testing, fault prelocation and pinpointing combined in one unit. (Pinpoint receiver ESG 80-2 not included in scope of delivery)
- ▶ Sheath test up to 5 kV with or without timer
- ▶ Time saving prelocation of sheath fault
- ▶ Automatic prelocation with self-calibration and second measurement for confirmation
- ▶ Clear indication of prelocated distance in meters
- ▶ Reduction of thermal load by using prelocation, limited current and pulsed pinpointing signal

### Technical Data

Test voltage	0 ... 0.5 kV DC 0 ... 1.0 kV DC 0 ... 2.0 kV DC 0 ... 5.0 kV DC
Test current	0 ... 1.0 mA 0 ... 10.0 mA
Location current	0 ... 0.15 A DC 0 ... 0.30 A DC 0 ... 0.60 A DC 0 ... 1.50 A DC
Pulse ratio	1 : 3 s 0.5 : 3 s 0.5 : 6 s
Meters	kV-Meter 0 ... 6 kV / mA-Meter
LCD display	2 x 16 digits, backlit
Length input	1 ... 9999 m
Test duration	1 ... 99 min
Power supply	230 V AC $\pm$ 10% / 45 ... 60 Hz
Power input	600 VA
Weight	30.6 kg (including cables)
Dimensions (L x W x H)	520 x 385 x 255 mm

### Scope of delivery

- ▶ MFM 5-1
- ▶ Set of all necessary cables
- ▶ Operating manual

### Options / Accessories

- ▶ ESG 80-2 earth fault locator as pinpoint receiver

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