MMG 10

Sheath Tester

- **Sheath testing on tedium and high-voltage cables**
- **Prelocation and pinpointing of sheath faults**
- **Conversion of high-resistance faults in low-voltage cables**

sebaKMT

sebaKMT AUS
Advanced Utility Solutions Pty Ltd. T/A.

Phone 02 9972 9244 Fax 02 9972 9433
Unit 1, 176 South Creek Road, Cromer NSW 2099
Email sales@sebakmtaus.com

www.sebakmtaus.com

MMG 10

Sheath Tester

Functional Description

The Sheath Tester MMG 10 is mainly designed for voltage testing of cable sheaths made of PE or PVC as well as for the location of sheath faults on shielded plastic-insulated cables and the detection of earth-leakage faults in plastic-sheathed cables.
In combination with the Sheath Fault Prelocation Device MVG 5, sheath faults can be prelocated.

The following measurements can be taken with the MVG 5:

- Sheath fault prelocation on shielded medium-high voltage cables.
- Prelocation of line-to-earth faults on plastic-insulated low-voltage cables.

Pin-Pointing is carried out by means of the Line-to-Earth Fault Locating Device ESG 80-2 by measuring the step voltage.

Due to the excellent burn down effect achieved by the full-wave rectification, this device is very well suited for converting high-resistance cable faults in low-voltage power cables into low-resistance ones.

Moreover our new Sheath Tester MMG 10 has further special features such as:

- continuously adjustable output voltage in voltage ranges 1000 V, 5000 V and 10000 V
- protection against overload by voltage and current control
- fault location at reduced power to prevent damages to adjacent wires or cables
- indication of voltage and current by two analog indicating instruments
- automatic discharge unit provides for removal of residual charge and for earthing the test object
- clock-controlled operation of the voltage source to prevent the drying-out of faults when pinpointing sheath faults
- excellent burn down effect through full-wave rectification

Technical Specification

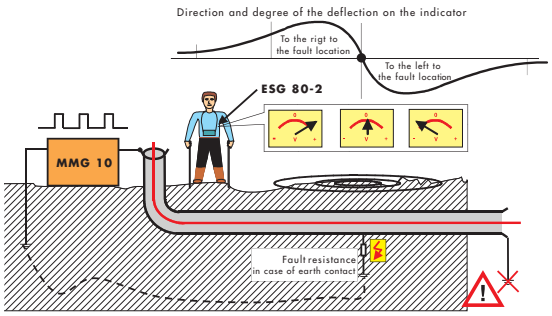
Input power	700 VA
Mains connection	230 V/3 A (45/60 Hz)
Maximum output current	0,5 A
Maximum output voltage	10 kV
DC output	1000 V / 0,5 A 5000 V / 0,1 A 10000 V / 0,05 A
Max. discharge capacity	12µF
Current control	switching regulator
Voltage control	switching regulator
Temperature monitoring	
Indication of high output voltage hazardous to touch	
Dimensions (H, W, D), mm (without handles)	200x360x360
Weight	approx. 9 kg
Operation temperature	-10°C ... +50°C
Storage temperature	-20°C ... +60°C

Accessory equipment

- Earth Fault Locating Device — ESG 80-2
- Earth spikes with measuring leads — EEB
- Sheath-Fault Prelocating Device (Prelocation up to 5 kV) — MVG 5
- Emergency-off switch — NAG 1 for stand-alone operation

For operation with Sheath Fault Prelocating Device MVG 5:

- Emergency-off switch — NAG 2



Sheath fault pinpointing with ESG 80-2

ISO 9001:2000

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Product Range: Instruments and Systems for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water Distribution Systems • Cable and Pipe Locators • Seminars • Service • Contracting

SebaKMT • Dr.-Herbert-Iann-Str. 6 • 96148 Baunach/Germany • Tel: +49 (0)9544-680 • Fax: +49 (0)9544-2273
sales@sebakmt.com • www.sebakmt.com

Technical data subject to change without notice.

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seba KMT AUS
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