

# Cable sheath test set

The InterSheath cable sheath test set was developed for testing and locating the faults in the cable sheaths of the shielded, plastic-insulated power cables. This set can also be used for locating the earth fault in unshielded, plastic-insulated power cables, control and communication cables.

The preventive cable sheath test and, if required, fault location followed by repairs is a suitable way to minimise the probability of a fault and an interruption in power supply. Moreover, a cable sheath test shortly after laying the cables is a reliable method for on-time detection and rectification of faults that may occur when laying cables.

The InterSheath cable sheath test set comprises:

- **Cable sheath test generator TS6-D400**  
For testing the outer sheath of shielded, plastic-insulated cables by measuring the leakage current at a configurable test voltage of up to 6 kV. For locating the faults in shielded and unshielded plastic cables.
- **Fault location device TS-VM**  
For prelocation of earth faults in plastic-insulated cables, especially in case of damages of the outer plastic sheath of shielded cables.
- **Fault probe LS-M**  
Location of earth faults in electrical systems. Early detection of cable faults by locating any contact of the cable shield with earth.



## SCOPE OF SUPPLY

- bag L 510 x W 670 x H 310
- cable sheath test generator TS6-D400
- fault-pre-location set TS-VM
- fault probe LS-M
- set of connecting cables
- batteries
- earth spikes
- shoulder strap for fault probe LS-M
- user manuals

- *Complete set in a rugged case*
- *Reliable location of earth faults*
- *Early detection of contact of earth*

## Cable sheath test generator TS6-D400



### FEATURES

- large ratio of the open circuit voltage to short-circuit current: 6 kV to 400 mA
- current regulation for pre-locating in combination with the fault pre-location device TS-VM
- built-in timer for post-locating in combination with the fault probe LS-M
- overcurrent interruption
- battery check
- built-in discharge switch

### SPECIFICATIONS

#### Operation modes

- DC-Test ..... 2 kV, I<sub>max</sub> 12 mA  
..... 4 kV, I<sub>max</sub> 6 mA  
..... 6 kV, I<sub>max</sub> 3 mA
- short circuit curr. .... max. I<sub>k</sub> = 400 mA
- clock pulse..... 1 sec.,  
break phase 3 sec.

#### Power supply

- mains voltage ..... 230 V, 50 Hz
- external DC voltage .. 12 V
- power consumption .. 100 VA

#### Mechanical data

- dimensions  
(L x W x H) in mm ..... 300 x 260 x 160
- weight ..... approx. 10 kg

## Fault locating devices TS-VM



### FEATURES

- precise reading owing to six current measurement ranges from 0.1 to 1000 mA
- four voltage measurement ranges between 0.01 and 10 V
- selector switch enables quick changeover of the feed from the start or from the remote end
- shock-proof insulated up to an operating voltage of 6 kV
- option of setting the switch from the start or the end of the object for supplying power

### SPECIFICATIONS

#### Operation modes

- voltage measurem. ... 0.01 up to 10 V
- current measurem. ... 0.1 up to 1000 mA

#### Power supply

- high voltage..... up to 6 kV extern
- for amplifier..... +/- 4.5 V batt.

#### Mechanical data

- dimensions  
(L x W x H) in mm ..... 240 x 360 x 160
- weight ..... approx. 3 kg

## Fault probe LS-M



### FEATURES

- direct DC voltage and peak value measurement, switchable
- positive or negative polarity of the needle deflector, switchable
- calibrated for measuring DC voltage and impulses in Volt
- long battery life (current consumption of 2 x 1.5 mA from 2 x 3 AA size batteries)

### SPECIFICATIONS

#### Specific characteristics

- highest ..... 10 mV  
input sensitivity
- input impedance ..... Re = 500 k $\Omega$

#### Power supply

- operating voltage .... 2 x 4.5 V  
from 6 batt.
- current consumption. 2 x 1.5 mA

#### Mechanical data

- dimensions  
(L x W x H) in mm ..... 85 x 225 x 120
- weight ..... approx. 1 kg