



## Data sheet



## Shirla

### All in one - fully automatic cable sheath testing and fault location system

The new top device - **shirla** is used for cable- and cable sheath testing, fault prelocation as well as for sheath fault pin pointing according to the step voltage method.

The special measuring bridge is performing the measurements according to Murray and Glaser. With the integrated high voltage DC source, **shirla** allows prelocation of low resistive as well as high resistive cable faults. The measuring principle enables prelocation of faults especially at unshielded control- and lighting cables as well as cable sheath!

Analyses are done automatically and the results are displayed digital.

For cable fault pin pointing according to the step voltage method, a defined DC pulse pattern is applied and the step voltage can be picked up by using the KMF1 or UL receiver set.

### Main features

- Cable and cable sheath testing up to 10kV
- Resistance measurement
- Cable and cable sheath fault prelocation with high precision measuring bridge
- Definable cable sections with individual adjustable length, cross section and conductor material
- Cable sheath fault pin pointing
- Integrated discharge unit
- Step less voltage adjustment
- Automatic reporting function
- Mains and battery operated
- Menu control via one button operation
- Timer function for testing and switch-on delay time





## Technical data

Mains supply	110 V <sub>AC</sub> ... 240 V <sub>AC</sub> , 50 Hz / 60 Hz
Max. power consumption	Max. 200 VA
Display	Illuminated digital LCD display, automatic adjustment of brightness, 320 x 240 dots
<b>Testing</b>	
Output voltage	0 – 10 kV
Output current	10 mA @ 5 kV, 5 mA @ 10 kV
Resolution	1 µA
Resistance measurement	Yes
Voltage and current limitation	Yes
<b>Cable sheath fault prelocation</b>	
Measuring technique	4 wire bridge according to Murray and Glaser
Measuring voltage	Up to 10 kV
Measuring current	Max. 50 mA
Accuracy	± 0,1%
Measuring sequence	Fully automatic balancing and measuring procedure
Definable cable sections	50 sections
Voltage and current limitation	Yes
<b>Cable sheath fault pin pointing</b>	
Pulse voltage	100V – 10kV
Output current	Max. 700 mA
Pulse code	Three selectable pulse pattern
<b>General</b>	
Battery operation	Integrated rechargeable battery Battery operation for a applications
Reporting function	For testing and prelocation via USB 2.0 port
Working temperature	-20°C....+50°C
Storage temperature	-40°C....+60°C
Max. relative humidity	not condensing
Dimension (in mm)	Approx. 440 x 490 x 220mm (L x H x W)
Weight including accessories	< 20 kg





### Delivery includes:

- Cable sheath testing and fault location system **shirla**
- HV connection lead
- 4-wire bridge connection cable
- Connection Clamps
- Short circuit cable sets for bridge connection technique
- Ground cable
- Mains cable
- USB memory stick
- Shoulder strap
- User manual

### Option:

- Discharge and grounding rod EES 40
- KMF 1 with sheath fault accessories incl. earth probes
- Sheath fault accessories incl. earth probes in combination with existing UL20/30

