

shirla

BAUR sheath test and fault location device



The figure is illustrative

Mobile cable sheath testing and fault location

- Fault pre-location and pin-pointing in a single device
- For use in the case of sheath faults and faults due to earth contact
- Mains and battery operated

The shirla sheath test and fault location device is used for cable sheath testing, and for the pre-location and pin-pointing of sheath faults and faults due to earth contact.

Fault pre-location is based on the measuring bridge principle according to Murray and Glaser. The measuring bridge is designed for power cables, but can also be used for fault pre-location on control and lighting cables. Zero balancing and evaluation take place automatically. The fault distance is displayed in metres and as a percentage of the cable length. Multiple cable sections can be entered, thus increasing the accuracy of the measurement.

For fault pin-pointing, shirla generates a pulsed voltage. When combined with the separately available BAUR protrac® pin-pointing system, it is possible to pin-point cable sheath faults with the step voltage method.

NEW: Flow UI

Easy operation with intuitive user guidance

Functions

- Cable sheath testing with DC voltage up to 10 kV
- Fault pre-location by means of high-resolution resistance measuring bridge
- Pre-location of sheath faults and faults due to earth contact with measuring bridge
- Step voltage method for sheath fault pin-pointing

Features

- Continuously adjustable voltage
- Adjustable current and voltage limitation
- Automatic measurement sequences and reporting
- Report export via USB interface
- Integrated discharge unit
- Port for external emergency off unit according to EN 50191
- Intuitive user interface in multiple languages adapted to the workflow

Pre-location of sheath faults and faults due to earth contact

- Measuring bridge with automatic zero balancing
- Automatic evaluation
- High accuracy by taking into account different cable sections in terms of length, conductor cross-section, and material

Sheath fault pin-pointing

- Pulsed voltage up to 10 kV
- 5 selectable pulse patterns
- Adjustable switch-on delay and operating time

Technical data

Cable sheath testing	
DC voltage (negative)	0 – 10 kV
Output current	10 mA @ DC 5 kV 5 mA @ DC 10 kV
Current indicator	
	Accuracy $\pm 10 \mu\text{A}$ Resolution 1 μA
Insulation resistance measurement	0.01 MOhm to 1 GOhm
Voltage and current limitation	Adjustable
Measuring bridge (pre-location of sheath faults and faults due to earth contact)	
Measurement method	4-wire measuring bridge according to Murray or Glaser
Output voltage	DC 100 V – 10 kV
Max. output current	50 mA
Accuracy	0.5%
Number of definable cable sections	Unlimited
Voltage and current limitation	Adjustable
Step voltage method (sheath fault pin-pointing)	
Pulsed DC voltage	100 V – 10 kV 5 selectable pulse patterns
Max. output current	700 mA

General	
Display	7" touchscreen
Report generation	- Shown on touchscreen - PDF export via USB interface (USB C)
Power supply	
	Mains voltage 100 – 240 V, 50/60 Hz Rechargeable battery Lead-acid battery (AGM), 2 x 12 V, 3.4 Ah
Battery life	Approx. 45 min (in HV mode)
Battery charging time	Approx. 4 h
Max. power consumption	200 VA
Max. discharge capacitance	25 μF
Ambient temperature (operational)	-20 to +50°C
Storage temperature	-40 to +60°C
Relative humidity	Non-condensing
Dimensions (W x H x D)	Approx. 440 x 490 x 220 mm
Weight	Approx. 17 kg
Degree of protection	IP54 (in closed state)
Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), EN 60068-2-ff Environmental testing

Standard delivery

shirla sheath test and fault location device incl.

- HV connection cable, 4.5 m, fix mounted
- 4-wire bridge connection cable, 2.5 m, fix mounted
- Short-circuit cable, 1 m, 2 pcs
- G-clamps, 24 mm, 4 pcs
- Earth cable, 3 m, with earth terminal
- Transport case for accessories
- USB drive
- Carrying strap
- Mains supply cord, 2.5 m
- User manual

Accessories and options

- GDR 20-125 discharge and earth rod
- External emergency off unit with signal lamps, 25 m or 50 m cable length, on hand cable drum



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