

shirla

BAUR sheath test and fault location device



Mobile cable sheath testing and fault location

- Fault pre-location and pin-pointing in a single device
- Data export via USB interface
- Mains and battery operated
- Simple operation and intuitive user interface

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

The fault pre-location is based on the measuring bridge principle according to Murray and Glaser. The measuring bridge is dimensioned specially for power cables, but also enables pre-location for control and lighting cables. Zero balance and evaluation take place automatically. The fault distance is shown in meters. Various cable sections can be entered, thus increasing the accuracy of the measurement.

For fault pin-pointing, shirla generates a pulsed voltage, thereby permitting the use of the step voltage method. Using the "Step voltage" set of the protrac® pin-pointing system, cable sheath faults and other faults due to earth contact can be located quickly and accurately.

Functions

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

Features

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

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

Cable sheath fault pin-pointing

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

General functions

- Continuously adjustable voltage
- Adjustable current and voltage limitation
- Automatic measurement sequences and reporting
- Automatic report export to USB stick
- Integrated discharge unit
- Connection for external emergency off unit in accordance with EN 50191

* Option

Technical data

Cable and cable sheath testing	
DC voltage	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 cable 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	0.1% relating to the measurement result
Number of definable cable sections	50
Voltage and current limitation	adjustable

Step voltage method (cable sheath fault pin-pointing)	
Pulsed DC voltage	100 V – 10 kV 4 selectable pulse patterns
Max. output current	700 mA

General	
Display	LCD with background lighting, screen resolution 320 x 240 pixels, Automatic brightness setting
Reporting	<ul style="list-style-type: none"> ▪ Shown on display ▪ Automatic export via USB interface (USB 2.0)
Data export format	Text file, bilingual: English, German
Power supply	<p>Mains voltage AC 100 – 240 V, 50/60 Hz</p> <p>Rechargeable battery DC 12 V, 3.4 Ah</p>
Max. power consumption	200 VA
Max. discharge capacity	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 incl. accessories	Approx. 20 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

Integrated battery	
Battery type	Lead-acid battery 12 V, 3.4 Ah
Battery life	Approx. 45 min (in HV mode)
Charging time	Approx. 4 h

Standard delivery

- BAUR shirla sheath test and fault location device
- HV connection cable, 4.5 m, fix mounted
- 4-wire bridge connection cable, 2.5 m, fix mounted
- G-clamps, 24 mm, 4 pcs
- Short-circuit cable set
- Earth cable, 3 m, with earth terminal
- Transport case for accessories
- USB drive
- Carrying strap
- Mains supply cord, 2.5 m
- User manual

Options

- GDR 20-125 discharge and earth rod
- BAUR protrac® pin-pointing system, "Step voltage" set
- Accessories set for cable sheath fault location with UL 30
- External emergency off unit with signal lamps, incl. connection cable, 50 m, on hand cable drum
- External emergency off unit with signal lamps, incl. connection cable, 25 m, on hand cable drum

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