shirla

BAUR sheath test and fault location device

Version for very long land and submarine cables

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 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. This measuring bridge technique provides high constant accuracy even on cables with a large cross section, and is also suitable for locating faults near terminations. It allows for pre-locating faults between the core and the cable screen as well as faults between cable screen and ground (sheath faults). Zero balancing 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. 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
- Step voltage method for cable sheath fault pin-pointing

Features

- Continuously adjustable voltage
- Adjustable current and voltage limitation
- Automatic measurement sequences and reporting
- Report export to USB stick
- Modified discharge unit for measurements on long land and submarine cables
- Connection for external emergency off unit in accordance with EN 50191
- Intuitive user interface in multiple languages adapted to the workflow

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
- 5 pulse patterns selectable
- Adjustable switch-on delay and operating time

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Technical data

Cable sheath testing	
DC voltage	0 – 10 kV
Output current	10 mA @ DC 5 kV 5 mA @ DC 10 kV
Current indicator	
Accuracy	±10 µA
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	approx. 0.5% relating to overall cable length
Number of definable cable sections	Unlimited
Voltage and current limitation	adjustable
Step voltage method (cable sheath fault pin-pointing)	
Pulsed DC voltage	100 V – 10 kV 5 selectable pulse patterns
Max. output current	700 mA

General	
Display	7" touchscreen
Reporting	▪ 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
Ambient temperature (operational)	-20 to +50°C
Storage temperature	-40 to +60°C
Relative humidity	Non-condensing
Weight and dimensions (W x H x D)	
shirla	Approx. 17 kg; approx. 440 x 490 x 220 mm
Transport case for accessories	Approx. 5 kg; approx. 450 x 355 x 125 mm
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

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