



BT 500 IS-1

Cable Fault Converter



**For converting high-resistance
cable faults in signal, control
and telecommunication cables into
low-resistance ones**

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Functional Description:

The BT 500-IS-1 Cable Fault Converter is mainly used for converting high-resistive cable faults in signal, control and telecommunication cables into low-resistive ones.

Its source of adjustable voltage 0 to 2 kV has a balanced output, i. e. a faulty pair of wires can be connected to its output terminal balanced to earth (ungrounded).

In conjunction with a special Sheath Prelocating Device of type MVG 5, sheath faults can be pre-located. Using this accessory device, the following measurements can be taken:

- Sheath fault prelocation on shielded telecommunication and control cables with PVC or PE-type sheath.
- Sheath fault prelocation on shielded medium-high voltage cables with PVC sheath (test voltage up to 2kV).

Pin pointing is carried out by means of the Earth Fault Locating Device ESG 80-2 by the method of measuring the step voltage.

Moreover our new Cable Fault Converter BT 500-IS-1 has some more special features such as:

- Continuously adjustable output voltage in voltage ranges 500, 1000, 2000 V.
- Floating potential at either outputs.
- Protection against overload by voltage and current control.
- Fault location at reduced power to prevent damages to adjacent wires or cables.
- Indication of voltage and current by two analog indicating instruments.
- Automatic discharge unit provides for removal of residual charge and for earthing the test object.
- Clock-controlled operation of the voltage source to prevent the drying-out of faults when pin pointing sheath faults.



Technical Specification:

Installed load	700 VA
Mains connection	230 V/3 A (45 / 60 Hz)
Maximum flash-over current	1 A
Maximum flash-over voltage	2 kV
DC output	500 V/1 A 1000V/0.5 A 2000V/0.25 A
Current control	switching regulator
Voltage control	switching regulator
Temperature monitoring	Indication of high output voltage hazardous to touch
Dimensions (H, W, D), mm	260 x 160 x 400 mm (without handles)
Weight	approx. 9 kg
Temperature range:	
Operation	-10 ... +50°C
Storage	-20 ... +60°C

Accessory equipment:

Earth Fault Locating Device	ESG 80-2
Earth spikes with measuring leads	EEB
Sheath Fault Prelocating Device	MVG 5
Emergency-off switch	NAG 1 for stand-alone operation
Emergency-off switch	NAG 2 for operation with MVG 5

DIN ISO-9001

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Product Range: Instruments and Test Vans for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water and Sewage Networks • Cable and Pipe Locators • Seminars

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Technical data subject to change without notice.

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