



## BT 500-IS-1

### Cable fault converter

#### Benefits

- ▶ **Overload protection**
- ▶ **Automatic discharge system**
- ▶ **For converting high-resistance faults in signal, control and telecommunications cables**



#### 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 2 kV)

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 Data

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 1000 V / 0.5 A 2000 V / 0.25 A
Current control	switching regulator
Voltage control	switching regulator
Dimensions (H x W x D)	260 x 160 x 400 mm
Weight	approx. 9 kg
Operation	-10 °C ... +50 °C
Storage	-20 °C ... +60 °C

#### Accessory equipment

- ▶ Emergency-off switch: NAG 1 for stand-alone operation
- ▶ Sheath fault prelocating device: MVG 5
- ▶ Emergency-off switch: NAG 2
- ▶ Operation with MVG 5
- ▶ Earth fault location device: ESG 80-2
- ▶ Earth spikes with measuring leads: EEB