



# ESG 80-2

## Earth Fault Locator



### Description:

#### Earth Fault Locator ESG 80-2

for pinpoint location of sheath faults. This instrument is a highly sensitive galvanometer and is provided with an amplifier. Interfering DC voltages can be suppressed with a compensation circuit.

#### The pinpoint location method

Pinpoint location of a sheath fault is based on the step voltage method. The test current flowing into the ground at the point of fault results in a peak at the fault. This peak is located with the two earth spikes and an earth fault locator. In front of the fault position, the step voltage increases as one approaches the fault and decreases after the fault with a change in polarity.

#### Technical features

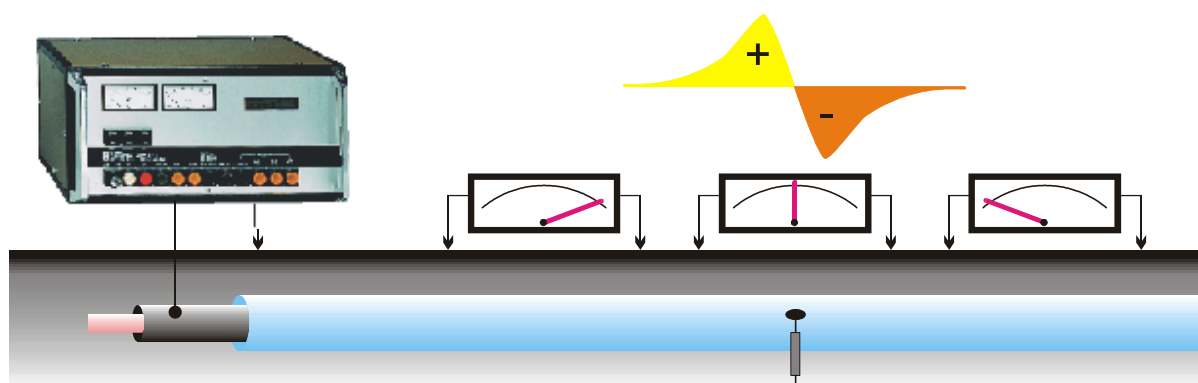
- Active mode with amplification and compensation for repressing stray voltage.
- Passive mode for use without battery power supply
- 6 sensitivity ranges
- Utmost measuring sensitivity for faults in the  $\mu\text{A}$  range.
- Easy handling and fault direction indication
- Variable earth spike distance for high sensitivity, even far away from faults

#### Technical Data:

Ammeter:	50 – 0 – 50 $\mu\text{A}$ 0.14 V (without amplification)
Sensitivity:	0.50 mV (with amplification)
Ranges:	2 x 6 switching stages
Compensation:	$\pm 100\%$
Power supply:	6 x 1.5 V Mignon
Dimensions (L x D x H) :	210 x 90x 120 mm
Weight:	1 kg

#### Scope of Delivery:

Receiver ESG 80-2  
2 earth spikes  
2 connecting leads  
Set of batteries  
Manual



Pinpoint location of a sheath fault

PE\_E\_ESG 80-2\_en\_07\_03.doc



WWW.CABLEJOINTS.CO.UK  
THORNE & DERRICK UK  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
WWW.THORNEANDDERRICK.CO.UK