



MVG 5-E

Bridge tester for sheath fault location in cables

Benefits:

- ▶ Easy to use
- ▶ Rugged design
- ▶ Cost saving solution where a HV supply already exist



Description

A prelocation of sheath faults in power and telecommunication cables prevents ageing, faults and the stress from faults that are a consequence of water ingress. Here the common TDR methods are not usable, since a conductive return via the earth is not existing. These faults can only be prelocated by using bridge technology. Conventional bridge testers, however, are not suitable since, since a test voltage up to 5 kV DC is required.

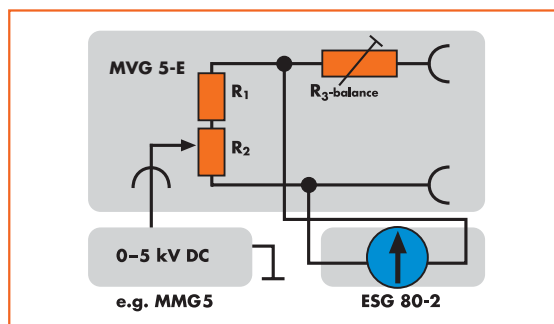
The high voltage bridge tester MVG 5-E has an input test voltage capability of up to 5 kV and is fitted with the circuits for bridge balancing. The components available for the HV supply as listed below, and the earth fault locator ESG 80-2 have a dual use, making this combination efficient and extremely cost-effective. The ESG 80-2 is used together with the external HV supply as galvanometer part of the prelocation bridge and with the pulsed HV as step voltage probe for the pinpointing procedure. A protective cover prevents contact with high voltage carrying parts.

The following units can be used to provide the HV supply for the MVG 5-E:

- BT 500-IS-1 0 - 2 kV
- MMG 5 0 - 5 kV
- MMG 10 0 - 10 kV
- SPG 5-1000 0 - 5 kV
- SPG 32 0 - 5 kV
- SPG 40 0 - 10 kV

Technical Data

Ext. input voltage	0 ... 5 kV DC
Indicating instrument	0 ... 2 kV or 0 ... 6 kV
Scale at 270° control span	0 ... 100 %
Compartment	for ESG 80-2
Internal discharge	Max. 5 µF
Pre-location accuracy	< 3 %
Operating temperature	-10 °C ... +50 °C
Dimensions (L x B x H)	520 x 255 x 285 mm
Weight (without ESG 80-2)	14.6 kg
Protection type	IP 21



Block diagram of the MVG 5-E with components



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