

Data Sheet



Fault Location Measuring Bridge DMB 5

A special feature of the small and handy measuring bridge DMB 5 is its high measuring accuracy.

It can be used for fault location in low, medium and high voltage cables and also for location of sheath faults. Measurements can be made up to 6 kV maximum.

Different measuring methods e.g. according to Glaser, Murray and Wheatstone are applicable just by changing cable terminals. The galvanometer indication of the measuring bridge DMB 5 is high voltage stable and shockproof. For suppression of transient and mains frequent interference an LC filter is connected in series with the measuring circuit.

The amplifier is fed by a 9 V battery. For supply of measuring voltage an internal source is provided with 6 V; As option an external, switchable power supply unit BS 3000 with 6 voltage steps from 10 V to 2500 V DC and incorporated current limitation is available. For high voltage measurements a HV testing set of series PGK can be used for voltage supply.

Features:

- measuring voltage up to 6 kV
- direct indication of fault distance in ‰ of total cable length
- resistance measurement according to Wheatstone
- especially applicable for sheath fault location
- highly accurate measuring method in four-wire technique

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Technical data

	DMB 5
Measuring voltage Battery internal Battery external	6 V 0...6000 V DC
Measuring current	1...50 mA
Measuring sensitivity (3 steps) of the galvanometer every 0,5 scale graduation	200 pA / 2 nA / 20 nA
Measuring range; 10-turn-potentiometer	0...999 ‰
Measuring accuracy	± 1 % at 20 ° C
Reference resistances	1 and 1000 Ω ± 0,1 %
Limiting frequency of amplifier	0...1.5 Hz
Operating temperature	- 10 up to + 55 ° C
Measuring voltage supply; Battery (IEC LR 20)	4 x 1.5 V
Power supply for amplifier; Battery (IEC 6 LR 61)	1 x 9 V
Dimensions (W x H x D)	approx. 280 x 280 x 195 mm
Weight with accessories	approx. 5 kg

Fault Location Measuring Bridge DMB 5

Delivery includes:

- Fault location measuring bridge DMB 5 without accessories
- Battery alkaline-manganese 1.5 V; IEC LR 20 (4 pcs.)
- Battery alkaline-manganese; 9 V; IEC 6 LR 61
- Test terminal 24 mm wide (4 pcs.)
- Ground line 3 m long; with ground terminal 24 mm wide
- Short-circuit cable 1.5 mm², 1 m long
- Short-circuit cable 25 mm², 1 m long
- HV cable 3 m long; without termination
- Cable and accessories bag
- Operating manual

Options:

- Power Supply Unit BS 3000 with accessories

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