

DIGIFLEX COM

**Digital Pulse Reflection
Instrument with very
High Precision and
Resolution**



**For Fault Location in
Telecommunication
Cables of up to
30 km Length**

sebaKMT



DIGIFLEX COM

Description of Operation:

Digiflex Com is a compact high performance instrument designed for the location of faults on copper cables. Its capabilities are marked out particularly by the short range resolution (down to 2.5 cm) and the long range of 30 km.

Ease of use and the incorporation of the latest technology enable even inexperienced users to achieve quick and precise locations with the Digiflex Com. For the expert a multitude of more advanced features is available.

The proven method of pulse reflection is employed whereby a string of suitable pulses is sent down the cable which are wholly or partially reflected back from the fault. The size and shape of these indicate the type of fault.

Performance Characteristics:

- High resolution of location down to 2.5 cm on a 50 m range
- Ease of operation through use of menu and help functions
- Adjustable range dependent amplitude correction
- Clear evaluation of the trace through simultaneous display of zoom and full screen (split-screen)
- Large area LC-Display can be backlit
- Single, continuous and average test modes
- Electrical strength of test inputs (250 V)
- Built in memory capacity for 50 traces
- Serial connection to printer and PC
- Records from PC can be uploaded to the instrument memory using Database software (Winkis)
- Robust, shower proof housing for rough field use

Scope of Delivery

- Digiflex Com
- Soft carry case for instrument and accessories
- 2 sets of test leads
- Charger
- 1 Accumulator 7.2 V / 1.7 Ah NiMH
- Operation manual



Technical data:

Ranges	50 m to 30000 m (with zoom 5 m)
Types of test	Direct test with internal reconstitution, IFL-Mode (Intermittent faults) Comparison of two pairs Differential display of two pairs Coupling (cross talk) tests, conductor crosses, Ingress of moisture with Fault Converter
Pulse widths	5; 10; 20; 50; 200; 750; 3000 ns
Distance measurement in μ s, metres or feet	
Max. resolution	2.5 cm
Accuracy	+/- 0.1 % of range +/- cursor steps
V/2 settings	30 - 150 m/ μ s 98 - 492 f/ μ s
NVP-Factor	0.200 - 0.9999
Dynamic range	> 90 dB
Display	256 x 128 Pixels
Pulse amplitude	10 V into 130 Ohms
Internal reconstitution	40 - 200 Ohm
Power supply	NiMH - replaceable accumulator and mains, 230 VAC 11 - 15 VDC
Op. temperature	-10 °C to +50 °C
Storage temperature	-20 °C to +60 °C
Housing	Plastic to IP 55, under DIN 40 050
Dimensions (L x H x D)	260 x 176 x 70 mm
Weight	1.5 kg

Optional accessories:

- Mains supply unit
- Transport case
- Fault Converter
(for location of moisture faults)
- Cable phantom KNB001
- Replacement accumulator
- Delivery with calibration certificate

DIN ISO 9001

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KABELMESSTECHNIK GmbH

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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