

Fault Locator Bridge

KE-FLB



**KURTH
ELECTRONIC**



FEATURES

- ▶ DC and AC fault location measurement
- ▶ Isolation resistance measurement
- ▶ Loop resistance measurement
- ▶ Resistance difference measurement
- ▶ Mutual capacitance measurement
- ▶ Conductor-shield capacitance measurement
- ▶ Break and split measurement
- ▶ DMM functions
- ▶ Cable temperature measurement by external test probe
- ▶ Simple, menu controlled operation
- ▶ Storage of setups and results
- ▶ Results can be logged on external printer or PC via RS232C
- ▶ Software upgrade via RS232C
- ▶ Program for supporting the calibration procedure according to ISO 9000
- ▶ 128 x 128 graphic LCD display with backlight
- ▶ Small size, suitable for using in the field
- ▶ Internal rechargeable battery pack

APPLICATIONS

The **Fault Locator Bridge KE-FLB** is a microprocessor controlled, DC and AC cable measuring instrument intended for fast and accurate fault location and quality testing of telecommunication cables.

The seven testmodi of **KE-FLB** allowing to locate precise all kind of faults like water ingress, short, open resistance faults, split, insulation problems by the big display with backlight.

The **KE-FLB** is one of the smallest and lightweight cable qualifier on the market. The serial interface allows to download and upload the measurement data to a PC. By this interface it is also possible to make a software upgrade if necessary.

The unit comes with rechargeable batteries, charger, test leads set and carrying pouch.

Technical Data Fault Locator Bridge

SPECIFICATIONS

Loop resistance

Measuring range1 Ohm to 10 kOhm
 Accuracy±0.2% rdg ±0.1 Ohm
 (100 Ohm to 10 kOhm)

Resistance difference (~R)

Measuring range of RL.....1 Ohm to 5 kOhm
 Measuring range of ~R1 Ohm to 1000 Ohm
 Accuracy ~R
 1 to 10 Ohm.....±1% rdg ±0.1 Ohm
 10 to 100 Ohm±1% to 0.2% rdg ±0.1 Ohm
 100 to 1000 Ohm±0.2% rdg ±0.05 Ohm

Insulation resistance

Measuring range10 kOhm to 100(20000)MOhm
 Accuracy**
 100 kOhm to 10 MOhm±1% rdg ±1 digit
 10 MOhm to 100 MOhm±2%
 rdg
 100 MOhm to 3000 MOhm±10%
 rdg
 3000 MOhm to 10000 MOhm±20%
 rdg
 10000 MOhm to 20000 MOhm±30%
 rdg

Capacitance

Measuring range1 nF to 10(25) µF
 tan ~0.0001 to 0.1
 Accuracy (10 nF to 10 µF)**... ±0.5% rdg ±1 digit
 Measuring frequency11 Hz

DC Fault Location

Measuring methods
 Murray Loop
 Three Point
 Improved Hector (Küpfmüller)
 Two Pair
 Loop resistance range 1 Ohm
 to 10 kOhm
 Accuracy of Lx/L (RL = 2 kOhm,
 Lx/L=0.1 to 1):

Fault <1 MOhm±0.1% rdg ±1 digit
 Fault 1 to 5 MOhm±0.2% rdg ±1 digit
 Fault 5 to 25 MOhm±1% rdg ±1 digit
 Fault 25 to 100 MOhm±5% rdg ±1 digit

Measuring voltage.....max. 100 V
 Measuring currentmax. 400 µA
 Internal filter> 70 dB at 50 Hz

Stored cable parameters

Standard Cu and Al cables
 User Defined cables
 User defined MultiSection cable User
 defined Loaded cable

AC Fault Location

Wire break, with and without leakage

Measuring range (depending on cable) up to 20 km
 Accuracy of Lx/L
 (20 nF to 10 µF)±(0.2 to 1)% rdg ±1 digit
 Measuring frequency11 Hz
 Split location
 Measuring range (depending on cable) up to 20 km
 Accuracy of Lx/L and L2/L (20 nF to 10 µF) ±(0.2 to
 1)% rdg ±1 digit
 Measuring frequency11 Hz

"rdg" is an abbreviation for "of reading"**Voltage**

DC voltage0 to 100 V
 AC voltage0 to 100 VRMS
 Accuracy±1% rdg ±0.1 V
 Frequency range15 to 300 Hz

Temperature (with Pt 1000 temperature probe)

Temperature range.....-20 to +60°C
 Resolution
 0.1°C
 Accuracy.....
 ±0.4°C

Storage and print out of measurement results

Memoryfor 32 result display
 Print out from result display or from memory via RS232C
 interface

Connectors

Connectors for measuring cables4 mm safety
 banana sockets
 Interface for printer or PC...9 pin D Sub for RS232C
 Charger2.1 / 5.5 mm

General specifications

Power supplyinternal rechargeable battery pack
 Operation timeapprox. 8 hours
 External chargermains adapter
 Charging time in fast charging modeless than 3 hours Power
 downautomatic after 10 minutes with no key stroke
 Display128 x 128 graphic LCD with backlight
 Input protection.....100_{VRMS} 50 Hz, 140 VDC,
 100_{mAPEAK} for 30 s

Environmental conditions

Reference range.....+23°C ± 5°C,
 RH 45% to 75% *
 Specified operating range0°C to +40°C,
 RH 30% to 75% *(< 25 g/m³)
 Operating range limits-10°C to +50°C,
 RH 30% to 75% *(< 25 g/m³)
 Transport/storage range limits-20°C to +70°C,
 RH 10% to 75% *(< 35 g/m³)

Dimensions200 x 100 x 40 mm

Weight.....0.8 kg

Bestell - Informationen

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|----------|--|
| 0.490325 | KE-FLB FAULT LOCATOR BRIDGE Including: Operating manual, Measuring cable set, Mains adapter, Battery (built in), Carrying case, Shoulder bag |
| 0.490351 | KE-FF10 Filter Unit |
| 0.490352 | KE-FC10 Cable looping device |

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