Fault locator bridge

KE-FLB

At a glance

- 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 pixel graphic LCD display with backlight
- Small size, suitable for usage in the field
- Internal rechargeable battery pack

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 test modes of **KE-FLB** alllow for precisely locating all kind of faults like water ingress, short, open resistance faults, split, insulation problems with the big display with backlight.
The **KE-FLB** is one of the smallest and lightweight cable qualifiers on the market. The serial interface allowes to download and upload the measurement data to a PC. With this interface it is also possible to make a software upgrade if neccesarry.
The unit comes with rechargeable batteries, a charger, test leads set and a carrying pouch.

KE-FLB Technical data

Loop resistance

Measuring range	1 Ω – 10 kΩ
Accuracy	
100 Ω – 10 kΩ	± 0,2% MV ± 0,1 Ω ± 1 digit

Resistance difference (ΔR)

Measuring range of R	1 Ω – 5 kΩ
Measuring range ofΔR	1 Ω – 1 kΩ
AccuracyΔR	
1 Ω – 10 Ω	± 1% FV ± 0,1 Ω
10 Ω – 100 Ω	± 1% – ± 0,2% FV ± 0,1 Ω
100 Ω – 1 kΩ	± 0,2% FV ± 0,05 Ω

Insulation resistance

Measuring range	10 kΩ – 100 (20.000) MΩ
Accuracy	
100 kΩ – 10 MΩ	± 1% MV ± 1 digit
10 MΩ – 100 MΩ	± 2% MV
100 MΩ – 3 GΩ	± 10% MV
3 GΩ – 10 GΩ	± 20% MV
10 GΩ – 20 GΩ	± 30% MV

Capacity

Measuring range	1 nF – 10 (25) µF
tan δ	0,0001 – 0,1
Accuracy	
1 nF – 10 µF	± 0,5% MV ± 1 digit
Measuring range	11 Hz

DC fault locations

Measuring methods	Murray Loop Three Point Improved Hector (Küpfmüller)
Loop resistance range	1 Ω – 10 kΩ
AccuracyLx/L (Rs = 2kΩ, Lx/L = 0,1 bis 1)	
Fault < 1 MΩ	± 0,1% MV ± 1 digit
Fault 1 – 5 MΩ	± 0,2% MV ± 1 digit
Fault 5 – 25 MΩ	± 1% MV ± 1 digit
Fault 25 – 100 MΩ	± 5% MV ± 1 digit
Measuring voltage	max. 100 V
Internaln filter	> 70 dB at 50 Hz
Measuring current	max. 400 µA

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KE-FLB Technical data (continuation)

Stored cable parameters	Standard Cu and Al cables User defined cables User defined MultiSection cables User defined Loaded cables

AC fault location

Wire break with or without leakage

Measuring range	depending on cable up to 20 km
Accuracy of Lx/L 20 nF– 10 µF	± 0,2 – 1% MV ± 1 digit
Measuring frequency	11 Hz
Split location	
Measuring range	depending on cable up to 20 km
Accuracy of Lx/L and L2/L 20 nF – 10 µF	± 0,2 – 1% MV ± 1 digit
Measuring frequency	11 HZ

Voltage measurement

DC voltage	0 – 100 V
AC voltage	0 – 100 V_{eff}
Accuracy (DC u. AC at 50/60 Hz)	± 1% MW ± 0,1 V
Frequency range	15 – 300 Hz

Temperature (with Pt 1000 temperature probe)

Temperature range	-20 – +60 °C
Resolution	0,1 °C
Accuracy	± 0,4 °C

Storage and print of measurement results

Memory	for 128 result displays

Print from result display or from memory via RS232C-Schnittstelle transferrable to PC

Connectors

Conn. f. measuring cables	4 mm safety banana sockets
Interface f. RS232C	D Sub9
Charger	2,1 / 5,5 mm

Allgemeine Spezifikationen

Power supply	internal rechargeable battery pack
Operation time	app. 8 hours
Ext. charging	via charger 230V, 50/60 Hz via 12 V car charger
Charging time (fast charging)	< 3 Hours
Auto power down	after 10 minutes without keystroke
Display	192 x 192 pixel graphic LCD with backlight with autom.. power down (5 mm)
Input protection	100 V_{eff} 50 Hz, 140 V_{DC}, 100 mA_{PEAK}, für 30 s
Dimensions	200 x 100 x 40 mm
Mass	0,8 kg

Environmental conditions

Reference range RH 30 % – 75 %*	+23 ± 5 °C
Specified operating range RH 30 % – 75 % (< 25 g/m³)*	0 – 40 °C
Operating range limits RH 30 % – 75 % (< 25 g/m³)*	-10 – 50 °C
Transport / Storage range limits RH 30 % – 75 % (< 35 g/m³)*	-20 – 70 °C

* no condensation
MV = measured value
FV = final value

Your Dealer

	Type	Description
KE-FLB	**KE-FLB**	**KE-FLB fault locator bridge**, including opreating manual, calibration certificate, measuring cable set, interface cable, PC software on CD, mains adapter, built-in rechargeable battery, carrying case, shoulder bag, EFF 50 filter unit (temperature probe optional)

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