

# Fault Locator TDR

# KE-TDR20



**KURTH  
ELECTRONIC**



## FEATURES

- ▶ TDR for balanced cables
- ▶ Widest range in a hand-held cable fault locator - up to 20 km
- ▶ 7 test modes
- ▶ Dual balanced input enables pair comparison and crosstalk location
- ▶ 10 memories for on-site waveform storage and comparison
- ▶ Large clear waveform display of full trace for accurate diagnosis, 192 x 192 LCD display with LED backlight
- ▶ Zoom for detailed examination Easy to operate
- ▶ Preprogrammed PVF values Automatic PVF calculation
- ▶ Results can be logged on an external printer or PC via RS232C
- ▶ Small size, suitable for using in the field Internal rechargeable battery pack

## APPLICATIONS

The ETDR 10 is purpose designed for balanced telecommunications cable. Seven test modes give fast fault location testing a single pair or comparing two pairs, one pair compared to any of the 10 memories, or crosstalk between two pairs. Fast function configuration. Dedicated keys for the most frequently used functions. All faults clearly identified from open circuits to wet joints.

### SPECIFICATIONS

#### Measuring modes provided

- Examination of a single pair
- Comparison between a good and faulty pair.
- Difference between a good pair and a faulty pair - Location of crosstalk points by transmitting on one pair and receiving on the other
- 'Before and after' comparison using the memory

**Measuring ranges** 100m, 250 m, 500m, 1000m, 2500m, 5000m, 10000m, 20000 m  
(Maximum range depends on cable type and condition)

**Evaluation of results** with cursor and marker in metres

**Zoom** Selectable 1 to 5 **Resolution**

with zoom .....0.11% of range

without zoom .....0.53% of range

#### Accuracy

Sampling .....0.1 m

Fault location .....0.4% of range

#### Propagation velocity

PVF .....0.3 to 0.999

V .....90 to 299 m/~s

V/2 .....45 to 150 m/~s

#### Gain control

Range .....0 to 66 dB

Steps .....6 dB/step

Maximum sensitivity  
for full scale deflection  $\pm 5$  mV

# Technical Data Fault Locator TDR

## Pulse characteristics

Amplitude.....	nominally 6 V into 120 Ohm	
Width .....	narrow, medium, wide	
Range .....	Narrow	Medium
Wide.....		
100 m.....	10 ns	25 ns
50 ns .....		
250 m.....	25 ns	50
ns .....	100 ns	
500 m.....	50 ns	100
ns .....	250 ns	
1000 m.....	100 ns	250
ns .....	500 ns	
2500 m.....	250 ns	500
ns .....	1000 ns	
5000 m.....	500 ns	1000
ns .....	2500 ns	
10000 m.....	1000 ns	2500
ns .....	5000 ns	
20000 m.....	1000 ns	2500
ns .....	5000 ns	

Storage and transport .....	-20 to +70°C
Dimensions .....	200 x 100 x 40 mm
Weight .....	0.8 kg

## Line connection

Impedance.....	120 Ohm balanced
Input protection .....	120 V RMS 50 Hz 200 V DC
Balance control .....	50 to 270 Ohm
Connectors .....	4 mm banana

## sockets Memory locations

For waveforms .....	10
For setups .....	10
For user stored PVF values .....	10
For typical PVF values .....	10

## General specifications

Power supply	
Internal rechargeable battery pack	
Operation time .....	approx. 8 hours (without backlight)
External DC source .....	12 to 16 V min. 400mA (e.g. mains adapter, car-battery)
When external DC source is connected to ETDR 10, the battery pack is being charged automatically.	
Interface .....	RS232C
Ambient temperature range	
Operating .....	-10 to +50°C

## Bestell - Informationen

0.490326	<b>KE-TDR20 CABLE FAULT LOCATOR</b> Including: Operating Manual Mains adapter Battery pack 2 balanced measuring cables Carrying case
0.490328	BLOCKING FILTER EBF 10
SW0.490326	PC software for data transfer

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