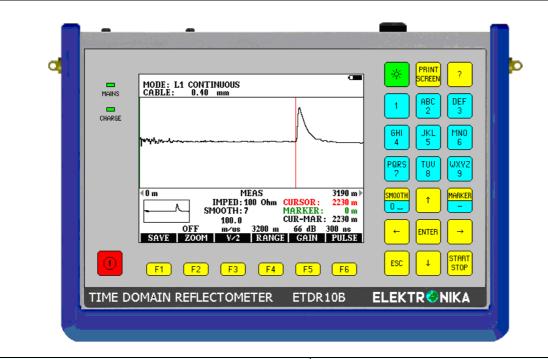
## WHERE IS THE FAULT?



## **ETDR 10B GIVES THE ANSWER!**



# **APPLICATIONS**

The ETDR 10B has been designed for quick and accurate fault location and qualification of balanced energy and unloaded telecom cables applying impulse reflection technique. The large color LCD display provides crystal clear wave forms.

The various measuring modes provide accurate location of discontinuities and errors like open circuit, short circuit, loose contact, wet section etc.

Loop Pulsing Device (ELP 400) is available to make the TDR measurements easier when the test object is a branched network.

Blocking Filter (EBF 20) is available to protect inputs when living low voltage energy cables are tested.

ETDR 10B employs optimized pulsing and sampling methods, supported with advanced filtering and signal processing techniques, to reach the maximum range and clean waveform for easier fault interpretation.

If you select the cable type from the cable library and set the measuring range covering the length of the cable to be tested, then: V/2, gain, pulse width, and the distance dependent compensation of cable attenuation are automatically set as default.

3 to 10 ns pulse widths for close-in resolution. Faults as near as 0.5 m from the pedestal can be easily located.

Help facility with sample traces and useful topic related information.

#### **FEATURES**

- TDR for balanced cables
- Automatic detection of the fault
- Small size, suitable for using in the field at different weather conditions
- Widest range in a hand-held cable fault locator up to 16 km
- Language selectable: English, Russian, German, Italian, French
- Dual balanced input enables:
   Examination of live lines
   Comparison of two live lines
   Difference between two live lines
   Location of crosstalk points
   Location of intermittent faults
   Comparison of live line to memory
   Difference between live line and memory
- Memory for storage waveforms and settings
- Clear waveform display of full trace for accurate diagnosis. 5' color display with backlight
- Zoom for detailed examination
- Cable library for standard and user defined cable types
- Results can be transferred to PC via USB cable, via WLAN or can be stored on memory stick.
- Internal rechargeable lithium-ion battery pack



# **SPECIFICATIONS**

SPECIFICATIONS		
Measuring ranges		Line connection
	16 m	Impedances: 100,135, 150 Ohm balanced
2	32 m	Input protection230V RMS 50 Hz 500 V DC
	64 m	Balance controlup to 250 Ohm
	160 m	
	320 m	Memory locations
	640 m	For waveforms
	1600 m	For setups
	3200 m	For user stored PVF values
=		1 of Startdard Cable parameters
	6400 m	General Specifications
	16000 m	Power supply
(Maximum range depends on cable features)		Internal rechargeable lithium-ion battery pack
<b>Evaluation of results</b>		Operation time min. 10 hours
with cursor and marker in meters		Charging (without taking the battery pack out) From 230 V mainswith mains adapter
		From 12 V car battery with car adapter (option)
Zoom SelectableOFF, 2.5, 5		Charging timeapprox. 3 hours
		Display
Resolution		Connectors
with zoom 0.06% of range		For mains or 12V car adapter 2.1/5.5 mm socket
without zoom 0.3% of range		L1 and L2 line connectors. 4 mm banana sockets
Accuracy		USB-MIC/Bto connect PC or memory stick
Sampling0.01 m		Ambient temperature ranges
Fault location 0.2% of range		Normal operation10 to +50°C
Propagation velocity		Rel. humidity 30% to 75% (<25g/m3)
V/245 to 150 m/μs		Limits of operation10 to +50°C
VOP30 to 99 %		Rel. humidity 5% to 95% (<29g/m3)
		Storage and transport20 to +70°C Rel. humidity55% at +45°C (<35g/m3)
Measuring modes		Protection
L1 AUTOMATIC	With auto configuration	Shockproof
L1 CONTINUOUS	Repeated measurements	<b>Dimensions</b>
	with averaging	Weight~1,2 kg
L1 LONG TIME	Location of loose contacts	* without condensation
L1 SINGLE	and intermittent faults	
L1 SINGLE	One single measurement	ORDERING INFORMATION
L2 CONTINUOUS	Repeated measurements with averaging	TIME DOMAIN REFLECTOMETER
L1 & L2		ETDR 10B474-000-000
L1 & L2	Comparison of two pairs	Including:
XTALK AUTOMATIC	Transmit on L1	Operating Manual
XTALK CONTINUOUS	Receive on L2	Short form operation instructions
L1 & MEMORY		Calibration Certificate Measuring Cable (red)
L1 - MEMORY	Comparison with memory	Measuring Cable (red) Measuring Cable (black)
Pulse characteristics		USB stick & adapter
		USB cable for PC connection
Amplitude: max 10V peak to peak to open circuit		Mains adapter
Widths: 3, 6, 10, 30, 60, 100, 300, 600 ns 1, 3, 6 $\mu$ s The provided pulse width changed with range.		Battery pack (built-in)
The provided pulse width changed with range.  The pulse amplitude changed with gain and width		Carrying case
The pulse amplitude changed with gain and width		Options:
Gain control		ECA 10 Coaxial Adapter378-000-000
		Car Lighter power adapter FAA 20 462-000-000

ELEKTRONIKA reserves the right to change specifications without prior notice!

05.09.2021

Range ......0 to 90 dB

Car Lighter power adapter EAA 20...462-000-000

Loop Pulsing Device ELP400 ...... 475-000-000