



# TDR CABLE FAULT LOCATOR

## TDR-410

**NEW!**



 **IP 54**

Location damaged power cables.

Fault location copper telecom cables.

Coaxial cable fault location.

Fault location wiring infrastructure.

Detection of breaks, short circuits, damage caused by dampness and other changes in impedance of the cable.

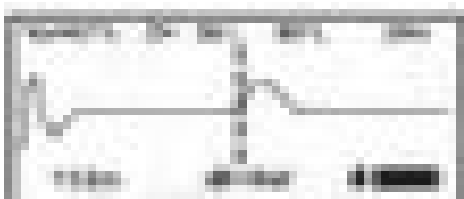
Graphic depiction of damage the cable with automatic indication the distance to fault on the screen.

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### Features:

- automatic or manual mode:
  - the automatic fault location (AFL),
  - mode with manual range selection and sensitivity,
  - single measurement triggered manually or scanning continuous,
- 11 available ranges from 7 m to 4000 m selected in manual mode or matched automatically,
- maximum length of cable up to 4000 m one end of the cable,
- "Dead zone" measure limited to 0.5 m,
- 2.5 "LCD screen with backlight,
- scan automatically or manually trigger,
- sensitivity set manually or automatically adjusted,
- adjustable impedance matching,
- propagation coefficient adjustment 1% to 99%,
- waterproof and resistant to mechanical housing.
- small size and weight.
- economical power system - 30 hours of continuously scan on one battery set.



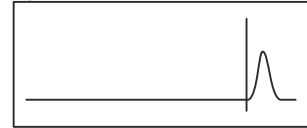
### TECHNICAL DATA:

Ranges Meters:	7, 15, 30, 60, 120, 250, 500, 1km, 2km, 3km, 4km
Ranges Feet	20, 45, 90, 180, 360, 750, 1500, 3000, 6000, 10000, 14000.
Range Selection	Manual range control / Auto range
Accuracy	1% of selected range*
Resolution	Approx 1% of range
Minimum cable length:	4m (14ft)
Sensitivity	Min 3 pixel return at 4km on 0.6mm R, PE, TP
Velocity Factor	Adjustable from 1% to 99%
Output Pulse	5 volts peak to peak into open circuit
Output Impedance	Selectable 25, 50, 75 & 100 Ω
Output Pulse	Width 3 ns to 3 μs, Automatic with range
Scan Rate	2 scans/second or scan held, pre set for each range scale
Tone Generator	810 – 1100Hz
Battery Life	30 hours continuous scanning
Power Supply	6 volts 4 x 1.5 AA Alkaline cells, on-screen low voltage indicator
Power Down Selectable	1, 2, 3, 5 minutes or disabled
Back Lit Display	128 x 64 pixel
Voltage Protection	250 volts AC
Operating Temp	-10ş / 50şC
Storage Temp	-20ş +70° C
Dimensions	165 x 90 x 37 mm (6.5 x 3.5 x 1.5 ins)
Weight	350 g (12oz)
Safety	IEC 61010-1, EN 60950
EMC	BS/EN 61326-1
Water/Dust Proof	IP54

Shorted conductor



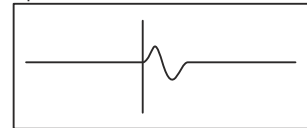
Open conductor



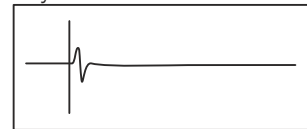
Tap



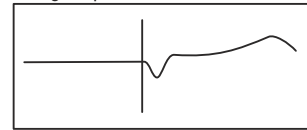
Splice



Frayed cable



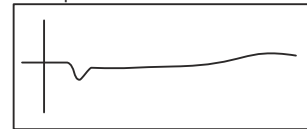
Bridge tap



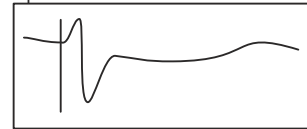
Water ingress



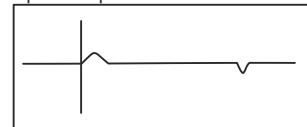
Wet splice / water



Splitter



Split / resplit



### Accessories:

- time-domain reflektometer TDR-410
- 0,6 m double-wire lead,
- red crocodile clip,
- black crocodile clip,
- cover M-2,
- alkaline batteries 1.5V AA (4 pieces),

**WMGBTDR410**  
**WAPRZX6DZBB**  
**WAKRORE20K02**  
**WAKROBL20K01**  
**WAFUTM2**

### Optional accessories:

- voltage separator AS-2

**WAADAAS2**