

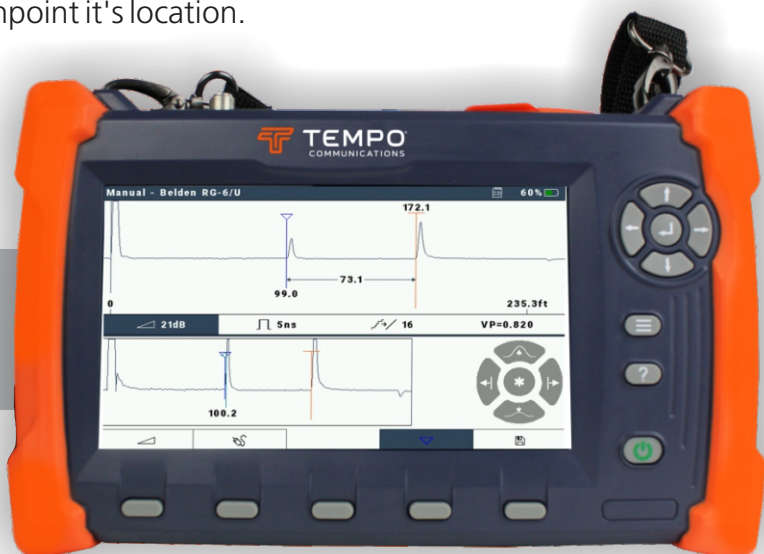
THE TDR FOR EVERYDAY USE BY EVERY TELECOM TECHNICIAN

CS90, the latest **tablet style TDR** in the long line of TDR's from **Tempo communications, USA** is the **most accurate TDR on the market in the product category**.

Cable Scout® 90 (CS90) offers a balanced mix of automation and manual testing that enables technicians to do their jobs right the first time. Quickly identifying faults accurately is essential for the busy cable technician.

The CS90 delivers the latest TDR technology in a small, lightweight and rugged design to provide unrivaled ease-of-use and **accurate distance to faults on cables**. With the CS90, technicians will spend less time operating the TDR and more time repairing faults. Simply select the cable type to be tested and the CS90 does the rest. **Pulse width, VP, gain, and vertical position** are **automatically** selected and adjusted as you scan the cable.

Finding the fault could not be faster, just move the cursor to the fault and use the **one-button zoom** function to pinpoint it's location.



The CS90 employs **optimized** pulsing and sampling, coupled with advanced filtering and signal-processing techniques. You always have the cleanest possible waveform for the easiest event identification.

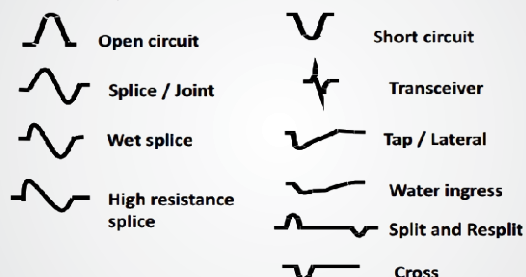
Optionally, add the **FastFind™ automatic fault locator** software to **quickly jump** to the **largest fault** on the cable and document with ease in real-time.

Built in **8 GB Memory** ensures that you can **save 62500 TDR traces**.

Features:

- Large, **color**, hi-res **backlit display** (readable outdoors in bright conditions)
- Splash, dust, and **shock-resistant** casing
- **Zero dead zone**
- **1, 5 and 25 ns pulse widths**
- Ideal for **testing insulation**
- **Intermittent fault** location
- Context-sensitive Help (help screens available for all functions)
- Narrow pulse width enables **near- end fault id**
- **Rechargeable lithium ion battery** for 8+ hrs. of use
- **Span view window** shows **entire cable & navigation**
- **Pre-loaded cable settings: 29 cables** preloaded (+ **custom**, upto 75 cables in total)

Display Modes



CLONE cable settings

from one CS90 unit to another via USB/SD card, for cables tested - avoid repeat feeding in of VOP settings - saving 100s of man hours

1 ns precision pulse

latest TDR technology ensure 0.075m highest resolution & highest accuracy of locating distance to cable fault

Fastfind™ technology

highlights the biggest event or end of cable automatically (Dual View)

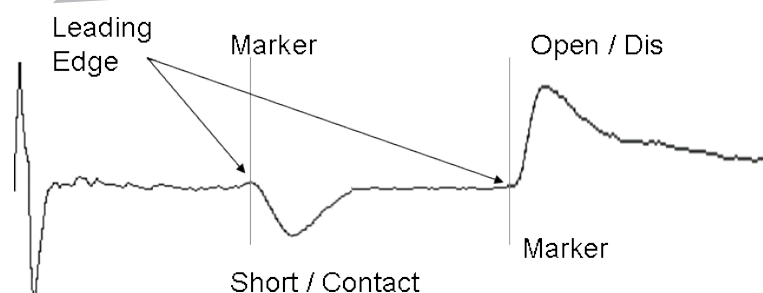
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Locate Type of Faults:

- Open & Shorts
- Load Coils
- Bridged Taps/ Laterals & Water In Copper Cables
- Low Insulation Faults

Secondary Application: Measure Actual Cable Lengths

Interpreting Waveforms



Principle : Time domain reflectometry, pulse reflection principles to detect impedance changes along a cable.

Specifications:

Output Pulse	Test Signal, Type	1/2 sine wave
	Width (ns)	1,5,25
	Impedance (Ω)	75
	Voltage	>4V peak
Input	Safety Protection	+/- 400VDC
	Filtering	1, 2, 4, 8, 16, 32
Performance	Horizontal Resolution	204 fps(0.075m)
	Dead Zone (m)	0
	Accuracy (ps)	$\pm 0.01\%$, ± 300
	VOP	Fully adjustable from 0.250 to 1.000
	Vp Factor (%)	0.1
	Gain (dB)	0 to 90
	Intermittent Fault Location	Yes
	Maximum Distance (Kf)	12
	Display Types	Color display, sunlight viewable
	Display Resolution	800 X 480
	Display Size	7 inch
	Backlight Brightness (nits)	1000
	Testing Type	Manual & Auto
	Test Result Storage	62500 traces (SD card : 8GB)
	Setting Storage	29 cables preloaded (space for up to 75 cables in total)
	External Communication	USB
	Battery Type	Rechargeable li-ion battery
	Battery Capacity	30 Wh; sufficient for >8 hr use with typical backlight
	Battery Life	Battery management system optimizes charging and lifetime
Physical	Size (mm)	262 x 162 x 55
	Weight (Kg)	0.9
	Operating/ Storage temperature ($^{\circ}\text{C}$)	0 to 50 / -20 to 70
	Certification	CE certified

Ordering Information:

CAT. NO.	DESCRIPTION
CS90	Cable scout 90 TDR (basic kit) consisting of CS90 TDR (with Li-Ion battery), battery charger, carrying case, test-lead alligator clip cord, user guide