Tracker Standard TDR

New generation touch screen TDR for metallic cable faultfinding

The Tracker Standard TDR is a multipurpose metallic time domain reflectometer (TDR). It is a cable fault locator designed to quickly and easily diagnose metallic cables. The Tracker Standard TDR combines the latest technology and user-friendly operation, creating a versatile and accurate TDR. It uses square pulse widths with very fast rising and falling edges. This unique capability creates high frequencies that allow for the most accurate reading of small faults in the cable even at very short distances less than 1m from the source of the test pulse.

Using time domain reflectometry, or cable radar, the TDR transmits a signal down the cable. Impedance discontinues along the length of the cable reflect some or all of the signal energy back to the instrument. These reflections are measured and displayed on the Tracker TDR's color LCD touch screen as both a waveform and a numeric distance to the fault. The Tracker TDR will test all types of metallic paired cables for opens, shorts and impedance mismatch.

The Tracker Standard TDR is a product of Springbok Instruments, USA, whose founders created RiserBond over two decades ago - a world known brand of metallic TDRs. As compared to all existing TDRs, Springbok Instruments introduces some revolutionary new features as standard: a high resolution color touch LCD screen and the Tracker Store – a unique system of storing up to 60 measurements, each file being a full waveform in all the available pulse widths regardless of what is on screen.

PC compatible Tracker View software is also a standard feature provided with Tracker TDR. It allows the user to work from the comfort of a truck or office with the same functionality as if having been on a live cable. It means a minimum time of a customer's interrupted cable service as a cable technician simply has to remove the cable under test from service, plug the TDR into the cable under test, touch "Store" and, in less than 5 seconds, return the cable under test to service. At this point, the technician can recall the stored record of the cable and study its signature on the TDR itself, write down any comments related to the measurement or download the measurement data to a laptop and have much enhanced functionality. New functionality of Bluetooth wireless communication added to the system allows the user to download the data on site onto a tablet or a smartphone with a purpose of having a quick external data bank or immediate transferring of data to the office for analysis or comparison.

The Tracker View allows the user:

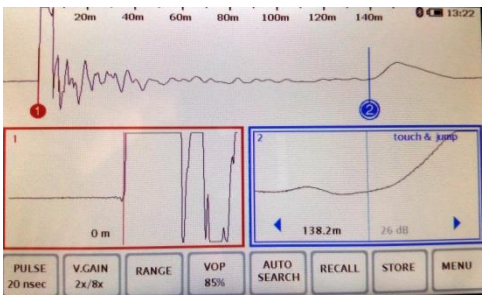
- To download, manipulate, save, print and email Tracker TDR stored waveform files from field cable testing.
- To compare historical data with current measurements on the same screen at all available pulse widths.
- It also allows a port into the internet for free updating the Tracker TDR's operating system.

Key Features:

- the most modern TDR technology based on high frequency energy test pulses
- locates faults (cable impedance discontinuities) for most of metallic cable types
- detects faults at very short distances – less than 1m with a 5ns pulse width
- high resolution large color touch LCD screen
- Auto-Search mode for ease of operation
- dual measurement cursors
- intuitive interface combined with accurate diagnose & locating of multiple events on a cable
- unique „one-touch storage of all pulse width" Tracker Store System for 10 cable tests
- Bluetooth 4 and USB connectivity to tablets and smartphones
- splash proof USB connection and Tracker View PC software at standard delivery
- updates of the Tracker TDR's operating system & Tracker View software via internet for free
- rugged and field tested case and a standard carry bag



Bluetooth



Tracker Standard TDR

A modern TDR designed to locate multiple events along metallic cables



Typical field applications for Tracker TDR:

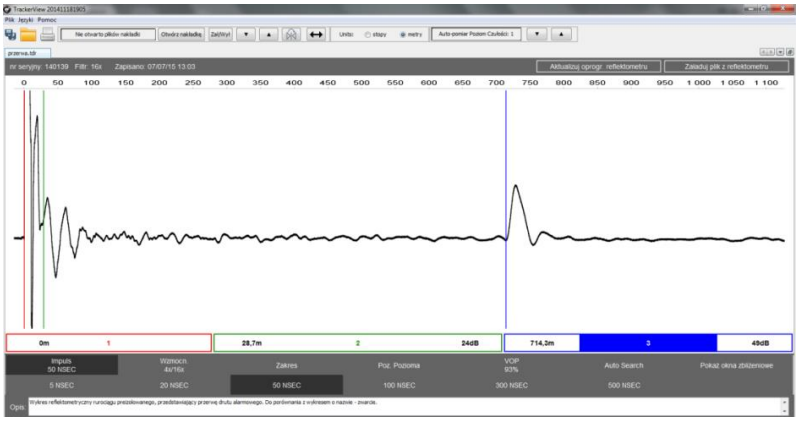
- *coax cable TV troubleshooting*
- *telecom copper cable faultfinding*
- *LAN network troubleshooting*
- *LV power cable faultfinding*

Technical Data

Distance Accuracy:	13cm @ 99% VOP (max cable length 650m) 12cm @ 85% VOP 5cm @ 40% VOP
Display:	5" LCD color touchscreen display (800 x 480)
Output Signal:	Pulse Widths: 5 nsec and 20 nsec
Note, due to high frequency energy of the pulses, the min. effective test range of 5nsec pulse is less than 1m!	
Power:	Battery: Internal, rechargeable, 2100 mAh Nickel metal hydride
Charging source:	External 18VDC transformer, 1000mA
Operating time:	greater than 5 hours, continuous in standard brightness display mode
Horizontal Resolution:	3cm
Vertical Resolution:	14 bits at 193 dots
Internal Memory:	Store up to 10 multi-pulse waveforms files in the instrument's memory
Input Protection:	400 V (AC + DC) from DC to 400 Hz, decreasing to 10 V at 1 MHz
Filtering:	1x and 2x
Vertical Gain:	1x/4x, 2x/8x, 4x/16x and 8x/32x
VOP Range:	40% - 99%
Connectivity:	USB port, internal Bluetoooth 4.0 modem
Weight:	0,95 kg (1,1kg including internal battery)
Physical dimensions:	width 23.80cm x depth 14.12cm x height 6.65cm
Operating temperature:	0° C - 50° C (32° F - 122° F)
Storage temperature:	-20° C - 60° C (-4° F - 140° F)
Humidity:	95% maximum relative, non-condensing

Scope of Delivery:

Tracker Standard TDR, BNC-Crocodile clip 2m test cable, mains charger, Tracker View PC software, USB cable, 75 Ohm BNC - 50 Ohm F adapter, carry bag, instruction manual





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