

# CableScout<sup>®</sup> TV90 | TDR Cable Tester for CATV

## APPLICATIONS:

If your job is to find faults on coaxial cable, the Tempo CableScout<sup>®</sup> TV90 is built for you. Designed specifically for CATV and other coaxial cable applications, the TV90 applies the newest technology to provide both ease of use and coaxial cable testing performance not found in any other TDR.

With the TV90, you'll spend less time operating the TDR and more time repairing faults. Simply select the cable type to be tested and the TV90 does the rest. Pulse width, VP, gain, and vertical position are automatically selected and adjusted as you scan the cable. Finding the fault couldn't be faster, just move the cursor to the fault and use the one-button zoom function to pinpoint its location.

On the performance side, the TV90 employs optimized pulsing and sampling, coupled with advanced filtering and signal-processing techniques. You always have a clean waveform for easiest event identification.

### SHORT PULSE WIDTH

The TV90 uses a 6-ns pulse width for close-in resolution. Faults as near as 3 feet from the pedestal are located with ease.

### RUGGED PACKAGE

Best of all, you get all this performance and ease of use in a small, light, rugged TDR package. Come snow, rain, heat, or humidity, the TV90 keeps working because you have to.



## FEATURES:

- Large, High-Resolution, Backlit Display
- Splash, Dust, and Shock-Resistant Packaging
- Easy to Use – Anyone Can Use It
- One Button Expand/Full-View Function
- Dedicated 75  $\Omega$  F Connector
- Intermittent Fault Location
- Context-Sensitive Help (Help Screens Available for All Functions)
- Small, Portable, Lightweight Package (2.2 pounds)
- Accurate ( $\pm 2$  ft. up to 200 feet, 1% beyond)
- 4000-Foot Fault-Location Capability
- Internal Cable Types for Fast, Accurate Testing
- Rechargeable battery pack

## BENEFITS:

- Find Location of Damage In Drops
- Find Impedance Mismatches
- Locate Bad Passive Devices
- Determine Length of Cable

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## Characteristics

Test Signal Output  
1/2 sine.  
Amplitude (into 75 Ω)  
6ns pulse: 5 V.  
12ns pulse: 6 V.  
Pulse Widths  
6 and 12 ns.  
Output Impedance  
75 Ω.  
Input Protection  
200 V, DC + peak AC to a maximum of 440 Hz,  
30 second duration.  
Display Ranges  
Eight automatic display ranges.  
Gain  
0 to 63 dB.  
Filter  
High pass, cutoff frequency 150 kHz, plus averaging.  
Distance Accuracy  
0 to 200 ft: ± 2 ft .  
Beyond 200 feet: 1% + zero offset.  
Display  
Resolution: 520 x 200 pixels.  
Size: 5.25 inches.  
Type: High contrast LCD.  
Backlight: Operator switchable.  
Distance Measurements  
Meters, feet, nanoseconds.  
Auto Shutoff Time  
Operator selectable:  
5 to 30 minutes.  
Disabled.

## ENVIRONMENTAL

Temperature Range –  
Operating: 0° C to +45° C.  
Non-operating: –20° C to +60° C.  
Humidity –  
Operating: 95% RH, non-condensing at +30° C to +40° C.  
Field Usage – Shock, splash, and dust resistant.

## EMI EMISSIONS

EN55011, Class A.  
FCC Part 15, Subpart B, Class A.

## SAFETY COMPLIANCE

Evaluated to:  
UL3111.  
CAN/CSA; C22.2, No. 1010.1.  
EN61010-1.  
Exempt from LVD (Low Voltage Directive).

## POWER

Battery Operation  
Battery Type: Six AA alkaline.  
Operating Time: Over 4.5 hours with backlight off.

## PHYSICAL

Dimensions	mm	in.
Height	141	5.6
Width	211	8.3
Depth	43	1.8
Weight	kg	lb.
Net	1	2.2

## WARRANTY

One year parts and labor.

## Ordering Information

TV90  
CableScout® TDR.  
Includes: BNC Female-to-Alligator Clips, 2 M Coaxial Jumper Cable, F-to-BNC Barrel Adapter, F-to-F Barrel Adapter, F-to-KS test probe, F-to-KS Test Adapter, Soft Carrying Case, Users Manual, Quick Reference Guide, and Rechargeable Nicad Battery Pack kit.  
Battery Pack kit includes: THM5Bat - rechargeable Nicad Battery, THM5CHG - AC Adapter (120 V US comes Standard), DC Cigarette Lighter adapter, pedestal. If international AC Adapter is required please specify option when ordering.

### TV90 OPTIONS

Option C3 – Three Years Calibration Service  
Option C5 – Five Years Calibration Service  
Option D1 – Test Data Report  
Option D3 – Three Years Test Data (requires Option C3)  
Option D5 – Five Years Test Data (requires Option C5)

## RECOMMENDED ACCESSORIES

Strand Hook (D-Ring) – 354074500.  
Rechargeable NiCad Battery Pack – THM5BAT.  
International Power Supply Options – THM5CHG  
External Charger for NiCad Battery Pack – THM5CHG. Includes: DC Adapter, Charger, Pedestal, and one of the following wall transformers (specify when ordering):  
Standard: 110 V US.  
Opt A1: 220 V Universal Europe.  
Opt A2: 240 V UK.  
Opt A6: 110V Japan.

