

# INSTALLATION TOOLS

## TDR 2040

Cable Fault Locator

- **Measure Cable up to 2500'**
- **Measure Voltage up to 250V**
- **Trace Hidden Cable Runs**
- **Compatible With All Common Cables**



## OVERVIEW

The TDR 2040 provides installation technicians and anyone involved in the installation or maintenance of metallic cables with the capability to quickly find faults in cables from a distance of 0 to 2500 feet.

### Pinpoint Cable Damage

Cables can be damaged during or after installation. Typically the damaged section is hidden from view behind walls, above ceilings or buried underground. Using Time Domain Reflectometry technology, the TDR 2040 quickly identifies an open or short and provides the distance to the problem location. This instrument can diagnose cable faults with no launch or dead zone and an accuracy to  $\pm 2\%$ .

The evaluation is performed by simply selecting the appropriate cable type from a pre-stored library, attaching the test leads to the two conductors of the cable, and pressing a single button to directly display measurement distances to the open or short. Voltage on the conductors is continuously measured and displayed to warn the operator of a potentially dangerous condition.

The TDR 2040 will also inject one of multiple tones into the cable for tracing cables in walls or ceilings, with any standard probe.

### Measure Cable Length

The TDR 2040 makes it easy for installers to know the amount of cable remaining on a spool or in a box before pulling a run. When multiple runs are being installed in the same area, the first run can be measured to accurately determine the total amount of cable required to complete the job. Checking cable inventory prior to starting a job eliminates unplanned trips to buy more cable.

### Ease of Use

The TDR 2040 is simple to operate. After turning the instrument on, a cable can be measured or toned with a single push of a button. The display provides all the cable measurement information together on one screen. The built-in library of over sixty cable types makes finding the correct cable information easy. The universal banana jack test lead connectors allow for a wide range of adapters for any connector type. In addition, a BNC and F adapter are included. A carrying case and 4 "AA" batteries are included.

The affordable TDR 2040 is an essential tool for anyone in cabling installation.



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## **SPECIFICATIONS**

### **Length:**

Accuracy:  $\pm 2\%$  plus  $\pm 2$  feet  
(with correct NVP)  
Resolution: 1 foot or 0.2 meters  
Maximum: 2500 feet or 750 meters  
Minimum: 0 feet or meters

### **Voltage: (True RMS Responding)**

Range: 0-250V (AC or DC)  
Accuracy:  $\pm 3\%$  plus 1V

### **Tracing Tone:**

Frequencies: 575 Hz, 977 Hz, 1.0KHz, 7.82 KHz  
Patterns: Four

### **Miscellaneous:**

Dimensions: 7.0 in. x 3.2 in. 1.4 in.  
17.8 cm x 8.1 cm x 3.6 cm  
Weight: 8.7 ounces (247g) (w/ batteries).  
Display: graphical 122 x 32 pixels  
Working Temperature: 0°C to 50°C  
Storage Temperature: -10°C to 55°C

### **Battery:**

Four AA Alkaline batteries

### **Adapter Types:**

Banana Jack to Alligator Test Leads  
Banana Jack to BNC Adapter  
BNC to F Adapter

