

**T 3090**

**T 3090 T**

**T 3090 SX**

**T 3090 SX-T**



## **Digital Time Domain Reflectometer**



***....the only TDR with Windows CE<sup>®</sup> embedded software for true Windows<sup>®</sup> software style operation***

# Technical Specifications T3090, T3090 T, T3090 SX, T3090 SX-T

Using a radar to pre-locate faults will save time and reduce cable damage. The **T3090** is designed to be the most user-friendly radar on the market! Advanced features include One Button Operation, Automatic Gain and a Large Color Screen. The T3090 will automatically 'read' the cable end and display the fault distance with a single thump. Our interactive '**Step-By-Step Easy Mode**' will help train (or re-train) the occasional user **while he is on the job!** The optional '**Sectionalizing Mode**'\*\* will quickly sectionalize faults in loops or radial systems.

## Measuring Range (ft, m , m sec or NVA)

Continuously from 0 ft to 25,000 ft

X Models 0 ft to 100,000 ft\*\*\*

## Fault Locating Methods

ARM® (HV Arc Reflection Mode)

Surge Pulse (optional, T3090SX models)

Sectionalizing (optional, T3090T models)

LV TDR (use for secondary fault locating)

## Pulse Width:

Automatic with range selection or manual  
50 ns, 100 ns, 200 ns, 500 ns, 1µs,  
2 µs, 5 µs, 10 µs

## Pulse Shape:

Special pulse shape for high resolution

## Sampling Rate: 100 MHz

## Accuracy:

<= 2.5 feet depending on displayed range

## Screen:

High Brite 1200 nits 10.4" diagonal  
VGA Color TFT LC-Display,

## Velocity of propagation:

Via cable menu or manual between  
140 ft/µs ... 492 ft/µs (also in m/µs)

## Display Choices:

Live trace always visible,  
stored reference & fault trace  
Up to 10 superimposed traces visible on  
display for comparison

## Weight / Dimensions: 17lbs, 11" x 15" x 6"

## Operator Modes:

### Quick Steps® Mode

Automatic fault distance location

Automatic "short" or "open" assessment

### Step-by-Step Easy Mode

Unique real time on-screen tutorial for :

*fault locating – hipot – pinpointing – burning  
for all HDW & some 3<sup>rd</sup> party equipment*

### Expert Mode

**NOTE:** *user can custom configure and  
password protect the specific TDR features  
available in each of the 3 modes, depending on  
the experience of the operator*

## Optional Fault locating Programs

### Sectionalizing

Automatic sectionalizing in loops, identifying  
cable fault between 2 closest transformers

### Surge Pulse

Fault locating with TDR as transient recorder

## Convenient Features:

### PC Communication:

Upgrade & Up & Download via USB Port

### Power Requirements:

115 V / 230 V, 50 / 60 Hz

### Operating Temperature:

-5 F to 105 F (-20 °C + 40 °C)

\*ARM® is a Trademark of HDW Electronics, Inc.

Quick Steps® is applied for Trademark by HDW Electronics, Inc.

\*\* Sectionalizing, Patent No.US 6,683,459 B2

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