

# FaultCaster

## Digital TDR Cable Length Meter & Fault Locator



**Low Cost Full Specification  
Professional Digital TDR**

**Measures Distance to Open or  
Short Circuit Faults**

**Extended Measuring Range to  
2000m (6000ft) on all cable types**

**Fast-Edge Step TDR technology  
for improved range and resolution**

**Voltage warning and Test Inhibit**

**Built in Tone Generator for Pair  
Tracing and Identification**

**Rugged & Compact - 350g (12oz)  
Water and Dust Proof to IP54**

**Complete with tool-belt holster  
and test leads**

**“High Resolution & Long Range in one TDR”**

# Description

The FaultCaster™ is a palm-top Digital Time Domain Reflectometer designed to detect and locate faults on all types of copper cable up to a distance of 2000m (6,000ft).

Fast-Edge Step TDR technology enable the FaultCaster™ to identify opens and short circuits, and directly indicate the fault distance on an alpha-numeric LCD, with better range and resolution than existing products

An internal library of standard cable types enables accurate measurements on cables without the necessity of entering Velocity Factor information.

In the event that the FaultCaster™ is connected to a live cable a warning will be displayed, and alarm tone sounded and testing inhibited.

The FaultCaster™ incorporates an oscillating tone generator, that is detectable using a standard tone probe, for use in the tracing and identification of pairs within a cable.

It is housed in a tough, ruggedised ABS plastic moulding, water and dust proof to IP54, and supplied complete with test leads and a protective tool-belt holster.

The FaultCaster™ is designed and manufactured to international standards for quality, safety and reliability.

# Specifications

Range @ Vp=70%	2000m (6000ft) @ Vp=70%	Voltage Warning	>10V ac/dc
Resolution (m)	0.1m up to 100m, then 1m	Power Supply	6v 4 x AA cells
Resolution (ft)	0.1ft up to 100ft, then 1ft	Battery Indicator	Shows % capacity
Accuracy	+/- 2%*	Auto Power Down	4 minutes
Cable Library	39 Standard Cable Types	Operating Temperature	0 to 40 deg. C
Velocity Factor	Adjustable from 0% to 99%	Storage Temperature	-20 to 70 deg. C
Output Pulse	5v p-p into open circuit	Dimensions	165 x 90 x 37mm
Output Impedance	Automatic compensation	Weight	350gms (12oz)
Output Pulse	Nanosecond rise step function	Safety	IEC61010-1 EN 60950
Display	2 x 16 Alphanumeric LCD	EMC	BS/EN 61326-1
Tone Generator	Oscillating 810 - 1100Hz	CE compliance with current EU directives	
		Water / Dust Proof	IP54



## Innovation through Technology

Complete with tool-belt holster and croc clip adaptor

**ISO9001**  
**IEC61010-1**  
**BS/EN61326**  
**EN60950**

**CE**  
Approved

\* Measurement accuracy of +/-2% assumes the instrument setting for velocity of propagation of the cable under test to be accurately set, and homogeneity of the velocity of propagation along the cable length.