

# TDR1000/3P

## Handheld TDR



- **Simple operation**
- **AUTO set up for instant use**
- **Ultra fast pulse for near end fault identification**
- **Trace HOLD feature to allow comparison between cables**
- **IP54 rating offers real life working**
- **Designed for use on all metallic cable pairs**

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### DESCRIPTION

The TDR1000/3P is a hand held, compact Time Domain Reflectometer for locating faults on metallic cables. It has a minimum resolution of 0.1 m/0.3 ft and a 5 km/15 kft maximum range depending on velocity factor selected and cable type.

Four output impedances are available (25, 50, 75, and 100  $\Omega$ ) and a velocity factor between 0.2 and 0.99 will meet any cable test requirements

The TDR1000 has a simple selection option which together with a 4 way control switch offers an intuitive operation for the user.

### FEATURES AND BENEFITS

An AUTO selection option ensures that the most effective parameters are selected depending on the range required, aiding rapid diagnosis of the TDR trace. Dual cursors allow complete flexibility, giving the operator full control and instant indication of distance between two points.

A trace HOLD feature also allows comparison between conditions, something not seen on most other handheld TDRs. Extra high resolution together with white-light backlight and grey scale tones give the graphical display a vibrancy, aiding the user in identifying key events on the trace.

- Backlit graphics monochrome LCD (256 x 128)
- Adjustable display contrast
- Resolution to 0.1 m
- For use on Telecom TNV-3 circuit, or 150 V CAT IV power circuits
- Power blocking filter not required
- Environmental protection to IP54
- Auto selected output impedance (between 25, 50, 75 and 100  $\Omega$ )
- 2 ns pulse for near end fault location
- AUTO option selecting gain and pulse for each range
- Display distance in metres or feet
- Uses five AA (LR6) primary cells

## SPECIFICATIONS

<b>Range</b>	10 m, 25 m, 100 m, 250 m, 1000 m, 2500 m, 5000 m (30 ft, 75 ft, 300 ft, 750 ft, 3000 ft, 7500 ft, 15000 ft)
<b>Accuracy</b>	±1% of range ± pixel at 0.67 VF [Note- The measurement accuracy is for the indicated cursor position only and is conditional on the velocity factor being correct.]
<b>Resolution</b>	1% of range
<b>Input protection</b>	This instrument complies with IEC61010-1 for connection to live systems up to 150 V CAT IV when used with the supplied fused test lead set.
<b>Output pulse</b>	5 volts peak to peak into open circuit. Pulse widths determined by range and cable
<b>Gain</b>	Set for each range with three user selectable steps (in Manual operating mode)
<b>Velocity factor</b>	Variable from 0.2 to 0.99 in steps of 0.01
<b>TX null</b>	Automatic
<b>Power down</b>	Automatic after 5 minutes with no key press
<b>Backlight</b>	Stays on for 1 minute with no key press
<b>Battery</b>	Five LR6 (AA) type batteries, Manganese alkali or nickel metal-hydride cells
<b>Battery life</b>	Up to 14 hours (Typical)
<b>Dimensions</b>	230 x 115 x 48 mm ( 9.0 x 4.5 x 2.0 inches)
<b>Weight</b>	0.6 kg (1.32 lbs)

<b>Case</b>	ABS
<b>Connectors</b>	Two 4 mm-safety terminals
<b>Test lead</b>	(19 mm spaced TDR1000/3P): 1 pair 1.5 m retractable sheath, fitted with 500 mA FF HBC 1 kV 50 kA fuse
<b>Display</b>	256 x 128 pixel Graphics LCD
<b>Operating temperature range and humidity</b>	-15 °C to +50 °C (5 °F to 122 °F)
<b>Storage temperature range and humidity</b>	-20 °C to 70 °C (-4 °F to 158 °F)
<b>Safety</b>	When using the supplied fused test lead set this instrument complies with IEC61010-1 for connection to live systems with less than 300 V between the terminals and up to 150 V CAT IV to earth
<b>EMC</b>	Complies with Electromagnetic Compatibility Specifications (Light industrial) BS EN 61326-1, with a minimum performance of 'B' for all immunity tests

## ORDERING INFORMATION

Description	Part number	Description	Part number
Time Domain Reflectometer	1001-789	<b>Included accessories</b>	
		Hard case	
		User guide CD	
		Retractable sheath fused test lead (1 pair)	
		<b>Optional accessories</b>	
		Miniature clip test lead set (1 pair)	6231-652
		Red and black probes and clips - for use with all Megger TDR Fused Test Leads.	1002-491
		Split conductor fused test lead set (1 pair)	1002-015

# Service van EURO-INDEX

EURO-INDEX verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.

## Geautoriseerd Service Centrum

EURO-INDEX is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen gebruikt en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Service- en kalibratielaboratorium

EURO-INDEX beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



## KWS®

KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

## Digitale toegang tot uw kalibratiecertificaten met Mijn KWS

Via het Mijn KWS webportal heeft u altijd en overal toegang tot uw kalibratiecertificaten en gerelateerde documenten.

## Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

## EURO-INDEX Academy

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's

Bekijk de video op ons YouTube kanaal en ontdek alles over KWS



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

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