



# Model 1205CXA

## Metallic Time Domain Reflectometer Cable Fault Locator

*The powerful TDR with a sensitive side.*

### FEATURES/KEY BENEFITS

- **RANGE-PLUS** - Two-button operation that allows the operator to quickly scan the cable under test while automatically stepping through a specific pulse width, vertical gain, and cable length.
- **Sub-nanosecond Pulse Width** - Pinpoint minor faults which interrupt digital services and cause signal loss, ingress, and egress.
- **Intermittent Fault Detection (IFD)** - Monitor and locate hard-to-find intermittent faults using the IFD mode.
- **Dual Independent Cursors** - Measure between any two points on the waveform.
- **SUPER-STORE Waveform Data Storage** - Helps reduce downtime in a system. Simply connect the TDR, press "store", and have the system back up and running within minutes. Analyze the waveform later.
- **WAVE-VIEW Software** - Upload waveforms to your computer. Document before accepting new plant, save money when comparing replacement versus repair cost.
- **Rugged, waterproof packaging** - Rugged, weatherproof casing helps keep the 1205CXA on the job, regardless of location or climate conditions.
- **Easy-to-use** - Logical, step-by-step testing for fault location and diagnosis is easy-to-use by all levels of expertise.



**Radiodetection**  
*Riser Bond*

# Model 1205CXA

## Sensitive To A Fault

### Product Specifications

#### Physical Dimensions:

Width: 10.5 inches (267 mm)  
Height: 9.75 inches (247.6 mm)  
Depth: 5 inches (127 mm)  
Weight: 6 pounds (2.7 kg)  
Power:  
Battery: Internal, rechargeable, 7.2 V Nickel metal hydride  
Charging Source: External 12 VAC transformer, 1.3 A  
Operating Time: Greater than 6 hours, continuous without backlight

#### Environment:

Operating temperature: 0° C (+32° F) to +50° C (+122° F)  
Typical temperature: -15° C (+5° F) to +60° C (+140° F)  
Storage temperature: -20° C (-4° F) to +60° C (+140° F)  
Humidity: 95% maximum relative humidity, non-condensing

#### Display:

320 x 240 dot-matrix, liquid crystal display (LCD) with cathode fluorescent (CFL) backlighting

#### Maximum Ranges:

63,700 feet (19,400 meters) at .990 VOP  
51,500 feet (15,500 meters) at .800 VOP  
Range varies with VOP. Maximum testable cable length varies with pulse width and cable type.

#### Horizontal Resolution:

Up to 2,000 ft (610 m): <.05 ft (.03 m) at .990 VOP  
<.02 ft (.01 m) at .300 VOP  
Over 2,000 ft (610 m): 1 ft (.1 m) at any VOP

Vertical Resolution: 14 bits with 170 dots displayed  
Vertical Sensitivity: Greater than 65 dB  
Output Connector: Front panel Female BNC

Velocity of Propagation: Two user-selectable display formats.  
VOP (%) with 3 digit precision ranging from 30.0% to 99.9%; V/2 with 4 digit precision ranging from 45.8 to 148.9 in meters mode or from 148.0 to 487.9 in feet mode.

## MAINTAINING THE CONNECTION

At Riser Bond Instruments, our first commitment is to you, our customer.

We start with product. Riser Bond builds our entire line of high-performance test equipment to meet your unique needs. And then we back them all with training, technical support, and the most comprehensive customer service and warranty in the industry.

When you choose Riser Bond, you have decades of product design knowledge and field experience inside every one of our state-of-the-art test instruments, and a guarantee of expert service after the sale. Riser Bond...maintaining the connection.

#### Input Protection:

400 volts (AC + DC) from DC to 400 Hz and decreases to 10 volts at 1 MHz.

#### Distance Accuracy:

Accuracy will vary with cable VOP and cable type.  
+/- .1 ft (.03 m) plus +/- .01% of reading

#### Serial I/O Port:

RS-232

#### Output Pulses:

Selectable output pulse widths

#### Auto dBRL:

2 digit auto return loss calculation at cursor setting

#### Waveform Storage:

Each with full vertical resolution

#### Standard:

8 waveforms

#### Optional:

32 waveforms

#### Automatic/Manual Noise Filter:

#### Standard:

Two averaging filters

#### Optional:

Multi-function/Multi-level filtering

#### Accessories:

Standard: Operator's manual, Shoulder strap, Battery charger, Battery pack, Noise filters, Connectors, WAVE-VIEW for Windows software, Clip-on accessory bag.

Optional: Additional waveform storage, Multi-function/multi-level noise filtering, Strand hooks kit, 12V Cigarette lighter charger, Custom Soft-side carrying case, Extended warranty.

Technological advances allow changes in specifications and/or components. Changes may be made without notification.

### Radiodetection Ltd.

Western Drive  
Bristol  
BS14 0AF  
United Kingdom

Tel: +44 (0) 117 976 7776  
Fax: +44 (0) 117 976 7775  
E-mail: sales.uk@radiodetection.spx.com

### Radiodetection

154 Portland Road  
Bridgton  
ME 04009  
USA

Tel: (207) 647-9495  
Toll Free: (877) 247-3797  
Fax: (207) 647-9496  
E-mail: bridgton@radiodetection.spx.com



**Radiodetection**  
Riser Bond

**H. FRÖHLICH AG** TEC

H. FRÖHLICH AG · Industrietechnik  
Widenholzstrasse 1 · CH-8304 Wallisellen  
Tel. +41 44 910 16 22 · Fax +41 44 910 63 44  
info@h-froehlich-ag.ch · www.h-froehlich-ag.ch

ISO 9001 REGISTERED

261-0003-02