



# 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.



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# 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.



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#### 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: rd.sales.uk@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: rd.sales.us@spx.com

## World leaders



Radiodetection is a proud member of the SPX group of companies, which provide technical products and service solutions worldwide.

Radiodetection and its associated companies specialize in the design and manufacture of products for the location and maintenance of underground pipes and cables. Our aim is to be viewed as the supplier of choice of 'high performance' quality equipment using advanced product technologies. We are also committed to both design innovation and customer support.

## Technical support



Radiodetection equipment users have easy access to technical support. A call to your regional representative, or the Radiodetection head office, will put you in contact with our team of field-experienced technical experts.

## Servicing and repair



Radiodetection has a team of factory-trained service technicians and dedicated service facilities. Turnaround is fast, and costs are very competitive.

## Training



Product training for your operators and training personnel is available on your site, or at Radiodetection's headquarters. Training is with qualified instructors and each trainee receives a certificate to confirm they have received the training.

### America

#### Radiodetection

154 Portland Road  
Bridgton, ME 04009, USA  
Tel: +1 (207) 647 9495  
Toll Free: +1 (877) 247 3797  
Fax: +1 (207) 647 9496  
Email: rd.sales.us@spx.com  
Web: www.radiodetection.com

#### Pearpoint

72055 Corporate Way  
Thousand Palms CA 92276, USA  
Tel: +1 800 688 8094  
Tel: +1 760 343 7350  
Fax: +1 760 343 7351  
Email: pearpoint.sales.us@spx.com  
Web: www.radiodetection.com

#### Radiodetection (Canada)

344 Edgeley Boulevard, Unit 34  
Concord, Ontario L4K 4B7, Canada  
Tel: +1 (905) 660 9995  
Toll Free: +1 (800) 665 7953  
Fax: +1 (905) 660 9579  
Email: rd.sales.ca@spx.com  
Web: www.radiodetection.com

### Europe

#### Radiodetection Ltd (UK)

Western Drive  
Bristol BS14 0AF, UK  
Tel: +44 (0) 117 976 7776  
Fax: +44 (0) 117 976 7775  
Email: rd.sales.uk@spx.com  
Web: www.radiodetection.com

#### Radiodetection (France)

13 Grande Rue, 76220  
Neuf Marché, France  
Tel: +33 (0) 232 8993 60  
Fax: +33 (0) 235 9095 58  
Email: rd.sales.fr@spx.com  
Web: http://fr.radiodetection.com

#### Radiodetection (Benelux)

Industriestraat 11  
7041 GD 's-Heerenberg, Netherlands  
Tel: +31 (0) 314 66 47 00  
Fax: +31 (0) 314 66 41 30  
Email: rd.sales.nl@spx.com  
Web: http://nl.radiodetection.com

#### Radiodetection (Germany)

Groendahlscher Weg 118  
46446 Emmerich am Rhein, Germany  
Tel: +49 (0) 28 51 92 37 20  
Fax: +49 (0) 28 51 92 37 520  
Email: rd.sales.de@spx.com  
Web: http://de.radiodetection.com

### Asia-Pacific

#### Radiodetection (Asia-Pacific)

Room 708, CC Wu Building  
302-308 Hennessy Road, Wan Chai  
Hong Kong SAR, China  
Tel: +852 2110 8160  
Fax: +852 2110 9681  
Email: rd.sales.cn@spx.com  
Web: www.radiodetection.com

#### Radiodetection (China)

Hongfu Mansion, Room 61622  
Zheng Ge Zhuang, Bei Qi Jia Town  
Chang Ping District  
Beijing 102209, China  
Tel: +86 (0) 10 8975 5540  
Fax: +86 (0) 10 8975 5640  
Email: rd.service.cn@spx.com  
Web: http://cn.radiodetection.com

#### Radiodetection (Australia)

Unit 14, 5-7 Prosperity Parade  
Warriewood NSW 2102, Australia  
Tel: +61 (0) 2 9979 8555  
Fax: +61 (0) 2 9979 7733  
Email: rd.sales.au@spx.com  
Web: www.radiodetection.com

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