



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 wave - forms 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.



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 HV Diagnostics, our first commitment is to you, our customer.

We start with product. HV Diagnostics 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 HV Diagnostics 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. HV Diagnostics...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 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 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.

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