

MODEL 1401E

TIME DOMAIN REFLECTOMETER (TDR)

Fast, accurate and easy to use, the Canoga Perkins Model 1401e Time Domain Reflectometer (TDR) will locate and identify most faults/problems encountered in telephone cables.

The faults/problems identified by the 1401e include shorts, crosses, opens, high resistance opens, splits, load coils, repeaters, wet splices, wet sections, bridge taps and unbalances.

Because the 1401e's operating system is designed with the OSP Technician in mind, the top menu layers contain the most frequently used features and parameters. You will find the 1401e's menu structure to be especially fast and easy to use. It minimizes operator keystrokes, quickly executes commands and uses common industry nomenclature.

The 1401e offers several significant features:

- Back-lit Supertwist LCD Screen - rugged and easy to read
- Thirty two Memory Locations for trace storage
- Dual Trace Storage - allows storage of reference and trouble pairs
- Parallel and Serial Printer Interfaces - supports IBM/Epson-compatible dot matrix and HP Laserjet II compatible printers
- Traces downloadable to PC or laptop computer
- The Accumulate Test allows for capture and storage of intermittent troubles

Additional features include Crosstalk Testing, Multiple Trace Comparisons, Single and Dual Pair Testing, Seven Measuring Ranges from 500 to 40,000 feet, Adjustable Propagation Velocity and a Waterproof User's Manual.

Rechargeable Battery operation provides 6 to 8 hours of continuous use with automatic shut down if not used for 10 minutes. Both Serial and Parallel printer interfaces provide the capability of either outputting to a printer or exporting to a computer for historical storage of traces or future comparisons and analysis.

The 1401e is available in a soft pack case. Durable and lightweight, the 1401e is designed to stand up to the rigors of continual field use.



OSP TEST EQUIPMENT

FEATURES

- Stores up to 32 traces
- Export traces to your computer
- Accumulate and Difference Modes
- Dual Trace and Crosstalk tests
- Back-lit Supertwist LCD
- Serial and Parallel Printer Ports
- Propagation Velocity Tables in Memory
- Simplified Menu Structure
- Continuous Scan Mode
- Configurable in Metric or Imperial
- Audible "Beep" when a key is depressed

MODEL 1401E

TIME DOMAIN REFLECTOMETER (TDR)

SPECIFICATIONS

● DISPLAY

Liquid Crystal (Supertwist)
2.67"D x 4.87"W (67mm x 123mm),
with backlight control

Resolution

128 x 240 pixels

● STATUS INDICATORS

Memory, Battery, Test, Speed, Range, Distance

● CONTROLS

Power, Contrast, Vertical Gain, Transmit Compensation

● FUNCTION KEYS

F1 to F5 software controlled and displayed on the screen for: Cursor Movement, Transmit Test Signal, Continuous Scan Mode, Range Control, Store Traces, Memory Location Control, Trace Comparison, Propagation Velocity Tables, Print, Backlight Control, Automatic Shutdown Control

● TEST SIGNAL

Burst of pulses

Width

2% of selected range

Frequency

Single or Continuous Scan (.8 sec. interval)

● CABLE INPUT

Impedance

Balanced 2-wire 75 to 250 ohms

Connector

(2) 1/4" Phono Tip Ring Jacks

● MEMORY

32 traces plus displayed trace

● PRINTER PORTS

Serial Port DB-9 connector

Parallel Port DB-25 connector

● PHYSICAL

Dimensions

8" x 11" x 5"

Weight

6 lbs.

● OPERATING MODES

Test

Crosstalk, Accumulate, Single Trace, Dual Trace, and Difference Modes

Ranges

(feet): 500; 1,000; 2,000; 5,000; 20,000; 40,000
(meters): 152; 305; 610; 1,524; 3,049; 6,098;
12,195

Resolution

2 feet/500 feet range
(0.61m/152m range)

Accuracy

2% or better

Propagation Velocity

200 feet to 500 feet/usec (round trip)

● POWER

Rechargeable batteries with automatic power off

Recharge

Overnight with supplied charger

Operating Time

Approximately 6 to 8 hours

● ENVIRONMENTAL

Normal Operating Temperature:

(-0° to 40°C)

Storage Operating Temperature:

(-20° to 60°C)

Relative Humidity (non-condensing):

95%

WORLD HEADQUARTERS

20600 Prairie Street

Chatsworth, CA 91311-6008

Phone (818) 718-6300 • Fax (818) 718-6312

E-mail: fiber@canoga.com

MADE IN THE
USA

ISO 9001 Registered



WWW.CANOGA.COM