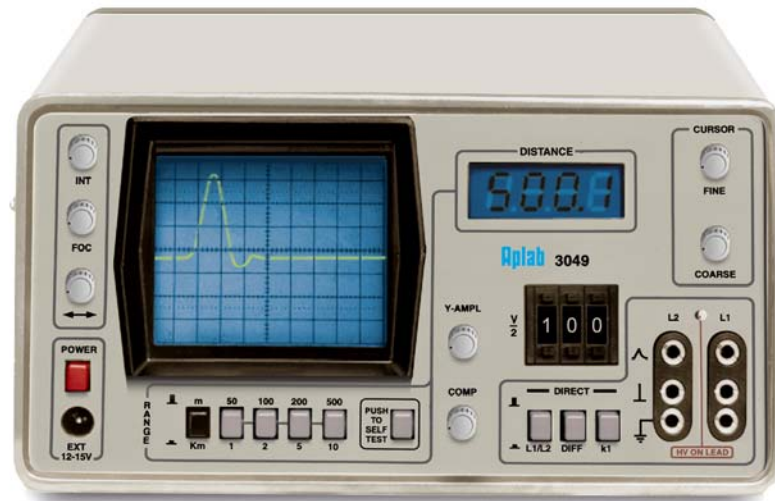


Cable Fault Locator (LCD Display with Cursor)



Features

- ★ Meets Current European PTT / TEC (India) Standards
- ★ Time Domain Reflectometry Technique
- ★ Direct Digital Readout in Meters
- ★ 4½ Digit LCD Display
- ★ Impulse Display on CRT
- ★ Cursor Setting for Accurate Measurements
- ★ ±1% Accurate
- ★ Shortest Fault Location
- ★ 10m - 10Km Ranges
- ★ Built-in Battery Powered or Mains Operation
- ★ Built-in Timer to Save Battery Energy
- ★ Built-in Battery Charger
- ★ Low-Batt Indication on LCD Display
- ★ Tests any Type of Paired or Coaxial Telecom Cables
- ★ Self Check Facility
- ★ Test Modes Direct with Resistive Matching Pair Comparison L1/L2 Difference Coupling L1 - L2
- ★ Easy to Use, Light Weight, Rugged, Portable with Carrying Case
- ★ High Voltage on Lead Indication

Description

The Cable Fault Locator Model 3049 is a portable field instrument working on the TDR principle and is designed to locate faults in unloaded telecommunication cables. It locates open and short circuits, series and shunt faults, split pairs and corrected splits, crosstalks and points of impedance change. The movement of the cursor to the fault position on the CRT display directly indicates the distance to the fault in meters on the LCD display. The instrument is designed to work on one line (L1), to compare L1 and L2 or to display the difference. Crosstalk points such as split pairs can be located by transmitting the pulse on L1 and receiving it on L2.

Specifications

Fault Distance Ranges	: 50m, 100m, 200m, 500m, 1Km, 2Km, 5Km, 10Km.
Fault Measurement Accuracy	: $\pm 1\%$ of Range.
Pulse Width Ranges	: 45, 70, 100, 200, 500, 725, 1500, 2500. (nsec $\pm 10\%$).
Pulse Waveform	: Square.
Pulse Voltage	: 0.6V - 12V p-p depending on range.
Output Impedance	: 150 Ω .
Cable Constant Input	: V/2 in 0 to 150 meters/ μ sec (digital).
Fault Distance Read-out	: 4 $\frac{1}{2}$ Digit LCD Display.
CRT Display	: 68 mm x 55 mm (10 x 8 div).
Sensitivity	: 150mV p-p produces 8 vertical divisions display.

Power Supply	
Internal	: 230V $\pm 10\%$ Mains or 12V DC. (2 x 6V - 3.5 AH rechargeable Lead Acid Maintenance Free Batteries).
External	: DC 12V - 15V, 1.5Amp.
Timer	: Built-in Timer switches power off automatically after 5 minutes (approx.) to save battery energy.
Weight	: 5.4 Kgs. (approx.).
Dimensions (mm)	: 325 (D) x 225 (W) x 120 (H) (approx.).
Standard Accessories	: Instruction Manual - 1 No. Ext. DC Power Lead - 1 No. Test Lead 3 Pin - 2 Nos. Carrying Case - 1 No.
Environmental Specifications	: Normal : 10°C to 40°C RH 85 % Operational : 0°C to 50°C RH 85%.

For charging battery the instrument can remain in the carrying case.

