



T-907L Power Cable Fault Locator

The T-907L is a lightweight, portable fault locator for low, medium and high-voltage power cables, which can be applied for the pre-location of all kinds of faults, including open circuit, short circuit, low resistance, high-resistance and flashovers.

The T-907L can operate in five modes: Time Domain Reflectometry (TDR), Secondary/Multiple Impulse Method, (SIM/MIM), Impulse Current Method (ICM), ICM (current) Decay and the Voltage Decay Method. Most power cable faults exhibit a high resistance, which requires the application of a high voltage surge to break it down for the purpose of pre-location. Of the operating modes available, ICM is the most cost-effective method of producing a flashover at the fault point using a standard surge generator. In the T-907L, the ICM is augmented by an Automatic Impulse Current (AIC) method, in which waveform recognition techniques are applied to calculate the fault location automatically, without the need for the operator to manually interpret the waveforms. For flashover faults requiring a high breakdown voltage, the Decay Method can be applied in conjunction with a HV DC source. The cable is charged by the DC source until it breaks down, creating a transient voltage signal which is captured through a capacitive voltage divider and used for fault location analysis.

In TDR mode, the unit can also be used as a stand-alone device on live, low voltage cables (<415V phase to phase), when used in conjunction with CAT IV/600V insulated, testing cables, which are available as an optional extra.

Features

- 5 operating modes
- Measuring range up to 64 km
- Automated ICM mode
- 400MHz sampling rate
- Integral back-lit colour touch-screen display

Specifications

- Voltage of transmitting pulse: 30V
- Width of transmitting pulse: 40ns - 7 μ s
- Velocity of propagation 90 – 300m/ μ s
- Output impedance: 5-87 Ohm
- Measuring range: 250m - 64 km
- Sampling rate: 400MHz (2.5ns)
- Internal memory: 20MB
- Charging voltage:
 - Input: 110-265V 50/60Hz AC
 - Output: 8.4V, 3A DC
- Operating pressure 86 – 106 kPa
- Operating temperature: -20 to +55°C
- Storage temperature: -25 to +70 °C
- Ingress protection IP54: Splash proof and dust protected
- Dimensions: 270 × 250 × 120mm
- Weight: 3 kg
- Relative humidity 20%-90% RH at 50°C

Delivery includes:

- Power Cable Fault Locator T-907L
- Carrying Bag
- Current Coupler
- Coupler Cable
- Testing Cable (CAT IV/600V insulated, testing cables available as an optional extra)
- Charger
- Manual



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