
KEHUI T-C880 Cable Fault Locator



Connecting the instrument and pressing a button, you can get the distance to fault. The T-C880 cable fault locator, a highly intelligent instrument, makes the dream of every cable maintenance people come true. Utilizing the latest microelectronics and digital signal processing techniques, T-C880 has internal gain control and impedance balancing capability, and can automatically calculate distance to fault. It is an ideal fault location and integrity testing instrument for telecom and control cables.

T-C880 applies pulses simultaneously to the line and balance outputs and displays the differential between resulting two signals. A switch allows the balance output to be applied to either a second (healthy) or an internal balance circuit simulating wave impedance of the cable tested. The direct mode of operation uses internal balance that will cancel the outgoing pulse in displayed trace to make fault reflection easily recognizable. The differential mode provides significant reduction in common distortion, an occurrence common with twisted cables, resulting in clean, easy to read traces. For high resistance fault like poor insulation, T-C880 uses bridge mode to locate fault. We can regard the cable is composed by many resistors, if we can measure the value of resistance from the detecting point to fault point, use this value divided by cable length, we will get the distance to fault.

- While the auto test ability makes the fault detection a much easier job, the manual operation interface provides an experienced operator more test flexibilities.
- Bi-polar pulse reduces attenuation and distortion of reflection of long distance fault, which significantly makes fault reflection to be recognized easier and increases accuracy.
- Comprehensive operation modes enable close up faults within few meters, to be located without the need to use interposing delay lines or coils of cable.

- Pulse velocity can be calibrated to any cable dielectric.
- While mainly designed for telephone cable with 8 Km range it can be easily modified to test longer distance cable.
- Using internal rechargeable li-ion battery with power save mode and power low indication, the instrument can continuously work for 5 hours without recharging.
- Up to 10 waveforms can be stored in internal no-volatile memory for later analysis, or computer read out through USB Disk, this make the waveform no limitation storage.
- A PC software package provides powerful fault reflection traces analysis capability. The fault point can be discriminated even easier by comparing a fault cable reflection with the trace recorded when the cable was “good”.
- A big LCD screen (320*240) with backlit gives much clearer waveform and message display.
- Immune to the effect if induced or impressed voltages on the cable under test.
- Portable and rugged design makes the unit easy to carry and withstand tough field environment.

- Range: 8 Km.
- Blind area: 1m.
- Resolution: 0.5m.
- Output impedance: 82-594Ω adjustable
- Pulse amplitude: 30V
- Pulse width: 160 ns-3.5μs adjustable with different range scope.
- VOP range: 100-300m/μs.
- Fault resistance range: 0-30 MΩ
- Accuracy: ±1% x cable length
- Voltage: 100V
- Measuring range: 9999m
- Operating temperature: -10°C-+50°C
- Dimension: 230mm × 140mm × 170mm
- Weight: 3 Kg