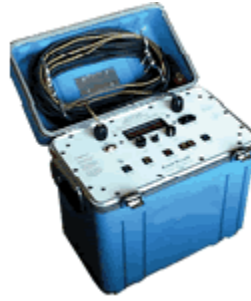


## Fault Expert HV Underground Cable Fault Locator



- A quarter the cost of comparable arc-reflection systems.
- Simple push and go operation deskills the fault finding process.
- No interpretation of complicated waveforms required.
- Arc-Reflection technology with automated readout of fault distance.
- Cycle Thump Mode for pinpointing faults.
- Variable charge voltage (0 to 10 kV)
- View waveforms with Fault Expert Software.
- Truly portable (battery powered, weighing only 23kg)

The Fault Expert is a compact, portable, and inexpensive fault location system for HV Underground Cable. The system is battery operated and can be easily used in remote locations. It is **very easy to operate with minimum training required**. The display shows the distance in metres or feet to the fault location, battery voltage, the velocity of propagation setting, the charge voltage, the fault type (open or short), and whether the system is armed for waveform storage. Waveforms can be retrieved for viewing on a computer (laptop or desktop) by utilizing the Fault Expert Software provided. However, viewing of the waveforms is not required since the Fault Expert gives an automatic readout of the distance to the fault location.

The Fault Expert can be used to perform arc-reflection on cable systems (half-loops, radials, etc.) for quick power restoration. The Fault Expert will ignore the transformer reflections and “lock” on the fault location. This allows the user to quickly determine the faulted cable section in the system. The Fault Expert will locate faults up to 3000m. The impulse voltage is variable, which allows lower voltage pulsing and minimum damage to cables. The system has a cycle mode for use in pinpointing the fault with a headset listening device (Fault Wand). However, the **Fault Expert has sufficient power to often be felt and heard above ground**. In cycle mode, the Fault Expert’s internal batteries will last over 1 hour (full battery charge) and deliver a 350 J pulse (at full voltage) every 6 seconds. The cycle rate is faster at lower voltage settings.

The system also has a Flash Test mode (DC output variable from 0 to 10 kV) for checking the breakdown voltage of the fault in an isolated section of cable or the integrity of an isolated section of cable (to insure the fault is in that section of cable before re-energizing the system).

The battery voltage will flash on the display when the batteries are low and need recharged. Battery recharging is accomplished through the 240 VAC socket located on the panel. An auxiliary battery pack is available to power the Fault Expert for extended field use.

Changing the velocity of propagation setting is easily accomplished using buttons located on the panel. The Fault Expert’s internal system is environmentally shielded and housed in a very durable rotationally-molded polyethylene case.

**Weight:** 23kg. **Size:** 26 cm (W) x 46 cm (L) x 49 cm (H)

**Power Source:** Internal Batteries (two 7 AH, 12 V sealed rechargeable lead/acid) or Auxiliary Battery Pack (same batteries as in the Fault Expert)

**Charge Voltage:** 0 to 10 kV

**Capacitance:** 7 uFMax

**Energy:** 350 J per pulse

**Hi-Pot Voltage:** 0 to 10 kV

**Output Cable Length:** 12m



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