




# Smart Thump 16

**Powerful, mobile and robust fault location system for fault location in low and medium voltage cable systems**

## Benefits

- ▶ **Very simple**  **operation**
- ▶ **Automatic menu-guided fault location**
- ▶ **Two surge levels (8 and 16 kV) of 1500 J each**
- ▶ **Transflexive colour display**
- ▶ **Battery operation**

## Functional description

The Smart THUMP 16 represents a new generation of portable cable fault location systems. The integrated intelligent menu guidance allows the user a fast, uncomplicated and effective fault location, without extensive training being necessary. The menu control guides the user through all operational modes and reduces manual entries to a minimum. End, fault distance and parameters are automatically recognised and accordingly adjusted. In the Expert Mode, the system offers a full-featured operation with complete manual control.

## Available modes

- ▶ ARM® Arc Reflection Method
- ▶ ICE (Surge Pulse)
- ▶ Direct surging (Thump)
- ▶ DC-HV proof test with breakdown recognition
- ▶ Burning
- ▶ Sheath testing and pinpointing

All results are automatically shown on the transflexive 5.7" TFT display as ARM reference and fault trace.

The integrated battery with charger and inverter provides sufficient power for a minimum of 30 minutes of surge operation, which is in many cases sufficient for the location of two faults.

## Features

- ▶ Easy Mode and Expert Mode
- ▶ Integrated reflectometer
- ▶ Direct display of all important data
- ▶ Integrated current measurement
- ▶ USB interface for protocolling
- ▶ Solid design, manoeuvrable unit
- ▶ Weatherproof for outdoor use
- ▶ F-Ohm safety system

## Options

- ▶ System without battery
- ▶ System without trolley and battery for vehicle installation



## Technical Data

Test Voltage	0 ... 8 kV, 60 mA, 0 ... 16 kV, 30 mA
Insulation Test	Integrated
Burning	Up to 60 mA
Breakdown recognition	Integrated
Surge Voltage	0 ... 8 kV / 16kV, 1500 J
Display	Transflexive 5.7" LCD, 640 x 480
Prelocation methods	ARM (inductive), ICE (impulse current decoupling)
Sheath Faults	Sheath testing Sheath fault pinpointing
Safety	Integrated F-Ohm monitoring
Supply	110 ... 230 V, 50 ... 60 Hz ext. 12 V DC (50 A!) internal Battery 12V / 74 AH
Operation time	Battery > 30 min (pinpointing)
Connection leads	15 m
Size W x H x D	690 x 1165 x 600 mm
Op. Temperature	-20 °C ... +50 °C
Protection class	IP 53 upright
Weight	145 kg

