

Surgeflex 15 Surgeflex 25

**Mobile,
Battery Operated
Cable Fault
Locating System**



- Testing in low and medium voltage networks
- easy to use
- extremely rugged design
- stand-alone operating

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Surgeflex 15 and Surgeflex 25

Cable Fault Locating System

Description

The mobile and battery powered fault locating system is designed for stand-alone operation. It will provide its full surge energy for up to four hours continuously. With 15 kV or 25 kV output voltage these systems are well suited for fault locating in low and medium voltage distribution networks.

The powerful ARM® (Arc Reflection Method) is used for pre-location of high resistance faults. Low resistance faults can be located with only the TDR T3050 and without having to use high voltage methods.

The Teleflex T3050 offers convenient operator support with online help and one-button-operation. It automatically shows the far end of cable and fault distance in the ARM®-Mode.

Even inexperienced users can easily locate faults with the "Step-by-Step Easy Mode". The operator is guided through the fault locating process. On the other hand, the "Expert-Mode" provides free access to all parameters for comprehensive fault locating even under difficult conditions.

1150 Joules of surge energy provide the necessary power for accurately pin-pointing cable faults with the acoustic method. Weather-proof housing and big wheels make the Surgeflex 15 and 25 suitable for easy operation in the field.

Connecting cables are conveniently accessible at the rear of the unit.

Technical Features

Complete fault locating system with:

- DC-Testing up to 15 kV / 25 kV (depending on model)
- Pre-locating
 - Reflection measurement
 - ARM®-Measurement (Arc Reflection Method)
- Cable Tracing (optional)
- Pin-pointing
 - Distance and acoustic measurement
 - Audio frequency methods (optional)
- Battery and mains operation

Scope of Delivery

SFX 15 and SFX 25: Test and surge generator
(Output voltage and energy depending on model)
System frame on wheels
Teleflex T3050
Rechargeable battery / charger
Operating manual
Set of connecting cables

Options / Accessories

- Pinpointing receiver Digiphone
- Audio frequency cable tracer and fault locator Ferrolux®
- Earth fault locator ESG 80-2



TDR Teleflex T3050

Technical Data

TDR Teleflex T3050

Range	50 m ... 7500 m
Pulse width	50 ns ... 10 µs
Sampling rate	100 MHz
Accuracy	± 0.1% of range
Display	10.4" VGA colour TFT display
V/2	60 m/µs ... 150 m/µs
Modes	Direct L1 Comparison via memory ARM®-mode
Memory	60 Traces
Interface	RS 232 for PC and printer
Operating temperature	-20°C ... +40°C
Dimensions (W x H x D)	360 x 150 x 280 mm
Weight	8 kg

Models

(incl. Teleflex T3050, battery and cable)

Surgeflex 15-560:

Test and surge voltage 0 ... 15 kV; 560 J
Weight approx. 90 kg

Surgeflex 15-1150:

Test and surge voltage 0 ... 7.5 kV; 1150 J
0 ... 15 kV; 1150 J
Weight approx. 110 kg

Surgeflex 25-1150:

Test and surge voltage 0 ... 12.5 kV; 1150 J
0 ... 25 kV; 1150 J
Weight approx. 110 kg

Technical Data of System

Surge rate	3 ... 9 s
Battery operation	approx. 4 h (560 J), approx. 1.5 h (1150 J)
Connecting cable	6 m (standard)
Mains supply	230 V; 50 / 60 Hz (110 V optional)
Dimensions (W x H x D)	600 x 1250 x 600 mm

ISO 9001:2000

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