

# Surgefex 32

## Cable Fault Locating System

### Description

The Surgefex 32 is a mobile system for testing and fault locating on low and medium voltage cables. The test and surge voltage of up to 32 kV make the Surgefex 32 applicable for cables of up to 18 kV nominal voltage.

The powerful ARM® (Arc Reflection Method) is used for pre-location of high resistance faults up to 32 kV. Conditioning faults - if necessary - is possible by short-term burning in all voltage levels. Low resistance faults can be located with only the TDR T3050-S and without having to use high voltage methods.

The Teleflex T3050-S 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.

1750 Joules of surge energy provide the necessary power for accurately pin-pointing cable faults with the acoustic method. Big wheels make the unit suitable for easy operation in the field.

Connecting cables for earthing, mains, and HV are conveniently accessible at the rear of the unit.

### Technical Features

- DC-testing up to 32 kV
- Pre-locating
  - Reflection measurement
  - ARM® – Measurement (Arc Reflection Method) up to 32 kV
  - Impulse Current Method 8 / 16 / 32 kV
- Burning (fault conditioning) up to 32 kV
- Cable tracing (optional)
- Pin-pointing
  - Distance and acoustic measurement (8 / 16 / 32 kV at 1000 J / 1750 J)
  - Sheath fault locating (0 ... 5 kV power regulated)
  - Audio frequency methods (optional)

### Scope of Delivery

- Surgefex 32** SPG 32; 0 ... 8 / 16 / 32 kV  
(1000 J / 1750 J)  
Teleflex T3050-S  
Mounting frame on wheels  
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-S

### Technical Data

#### TDR Teleflex T3050-S

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 Impulse Current 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

#### HV-Module SPG 32

Testing	0 ... 32 kV DC
Surge	0 ... 8 kV; 1000 J / 1750 J 0 ... 16 kV; 1000 J / 1750 J 0 ... 32 kV; 1000 J / 1750 J
Surge rate	3 ... 10 s, Single pulse
Burning	0 ... 32 kV 160 mA
Sheath fault locating	0 ... 5 kV 160 mA

#### Technical Data of System

Connecting cable	6 m (standard)
Mains supply	230 V; 50 / 60 Hz, 2 kVA (110 V optional)
Dimensions (W x H x D)	800 x 1280 x 800 mm
Weight	approx. 140 kg



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## Mobile Cable Fault Locating System

Testing and Fault Locating of Power Distribution Cables up to 32 kV in Low and Medium Voltage Networks

# sebaKMT

DIN ISO 9001

Product Range : Instruments and Test Vans for Fault Location in Power and Telecommunication Networks and for Leak Detection in Water and Sewage Networks • Cable and Pipe Locators • Seminars  
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Technical data subject to change without notice.

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