



Surgefex 8

**Mobile Cable Fault
Locating System**



**Testing and Fault Locating
of Power Distribution
Cables up to 8 kV
in Low and Medium
Voltage Networks**

sebaKMT 

Surgeflex 8

Cable Fault Locating System

Description

The Surgeflex 8 is a mobile and economical fault locating system, perfectly suitable for low and medium voltage cables as well as control cables or deep-well-pump cables.

The powerful ARM® (Arc Reflection Method) is used to pre-locate high resistance faults. 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 end of cable and fault location 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.

1000 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. The modular set-up allows a flexible constellation of the Surgeflex 8 to fit individual needs.

Technical Features

- DC-testing up to 8 kV
- Pre-locating
 - Reflection measurement
 - ARM®-Measurement (Arc Reflection Method) up to 8 kV
 - Impulse Current Method 2 / 4 / 8 kV
- Burning (fault conditioning) up to 8 kV
- Cable tracing (optional)
- Pin-pointing
 - Distance and acoustic measurement (2 / 4 / 8 kV at 1000 J)
 - Sheath fault locating
 - Audio frequency methods (optional)

Scope of Delivery

Surgeflex 8	Surge Unit 2/4/8 kV ARM® Unit 8 kV Teleflex T3050-S Mounting frame on wheels Operating manual Set of connecting cables
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Options / Accessories

- Pin-pointing receiver Digiphone
- Audio frequency cable
tracer and fault locator Ferrolux®
- Earth fault locating receiver 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

Surge Unit 2/4/8 kV

Testing	0 ... 8 kV
Surge	0 ... 2 kV; 1000 J 0 ... 4 kV; 1000 J 0 ... 8 kV; 1000 J
Surge rate	2 ... 6 s
Burning	Single pulse up to 1.4 A

Technical Data of System

Connecting cable	6 m (standard)
Mains supply	230 V; 50 / 60 Hz, 2.3 kVA (110 V optional)
Dimensions (W x H x D)	530 x 1390 x 660 mm
Weight	approx. 90 kg

DIN ISO 9001

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