

Surgeflex 15 and 25

Mobile, battery operated cable fault locating system



- **Testing in low and medium voltage networks**
- **Easy to use**
- **Extremely rugged design**
- **Stand-alone operating**

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 1.5 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 Teleflex SX and without having to use high voltage methods.

The Teleflex SX 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 pinpointing cable faults with the acoustic method. Weatherproof 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)
- Prelocating
 - Reflection measurement
 - ARM-Measurement (Arc reflection method)
 - ICE Impulse current method
- Cable tracing (optional)
- Pin-pointing
 - Distance and acoustic measurement
 - Audio frequency methods (optional)
 - Battery and mains operation

Technical Data

System	
Surge rate	3 ... 9 s
Battery operation	approx. 1.5 h (1150 J)
Mains supply	230 V; 50/60 Hz (110 V optional)
Dimensions (W x H x D)	600 x 1250 x 600 mm
Models (incl. Teleflex SX, battery and cable)	
Surgeflex 15-1150	
Test and surge voltage	0 ... 7.5 kV; 1150 J
Test and surge voltage	0 ... 15 kV; 1150 J
Weight	approx. 110 kg
Teleflex SX	
Operation	Capacitive touchscreen and jogdial
Range	20 m ... 160 km @ v/2 = 80 m/μs
Pulse width / amplitude	20 ns ... 10 μs / 30 ... 50 V
Resolution	0.1 m @ v/2 80 m/μs, 1 cm @ V/2 < 40 m/μs
Gain	- 37 ... +37 db
De-attenuation	0 ... +22 dB for ProRange (adjustable 0 ... 100 %)
Sample rate	Up to 400 MHz
Propagation velocity V/2	10 ... 149.9 m/μs, ft/μs or nvp
Dynamic range	> 80 dB
Compensation	8 Ω ... 500 Ω, adjustable
Voltage proof input	> 400 V
ARMslide	15 measurements in one ARM shot
Dead zone	None
Modes	Symmetrical / unsymmetrical reflection measurement, difference measurement/comparison, all ARM Arc reflection methods, all ICE impulse current decoupling, methods,DECAY travelling wave method,IFL Intermittent fault location, Arc reflection burning

Display	10.4" TFT XGA 1024x768, 600 cd/m2, CCFL-Backlight
Data storage	4 GB mSATA for program and data
Connectors	Ethernet, USB, BNC, CAN (LON opt.)
Protection class	IP 65 closed, IP 54 open lid
Supply	110 ... 240 V, 50/60 Hz, 30 VA, 12 V ext
Dimensions (W x H x D)	None
Weight	10 kg
Operation temperature	-10 °C ... +50 °C
Storage temperature	-20 °C ... +60 °C

ORDERING INFORMATION

Item	Cat. No.
Surgeflex 15-1150	
Teleflex SX	
Consisting of:	
Pinpointing receiver digiPHONE+	
Audio frequency cable tracer and fault locator	Ferrolux
Vehicle installation version without battery, inverter and trolley	

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