Portable cable test and fault location system 技术咨询和询价:010-68940148

Surgeflex 12 and 16

Portable cable test and fault location system for medium and low voltage power cables



- Safe and fast fault location with latest Teleflex SX technology
- High surge energy for effective pinpoint locating
- Various fault location methods included

康高特-MEGGER SFX12、SFX16电缆故障定位系统DESCRIPTION

The Surgeflex unit is a mobile system for testing and fault locating on low and medium voltage cables. The powerful ARM® (Arc Reflection Method) is used to prelocate high resistance faults. Conditioning faults – if necessary – is possible by short-term burning in all voltage levels.

The Teleflex SX is operated by the new touchscreen and the well-proven control knob functionality. The interface is shown on a bright, sharp 10.4" display. The Teleflex SX is specially adapted to deal with the rapidly unfolding events that occur during power cable fault location. The easyGO operation is reduced to the essential steps, most of which run automatically. The new hardware uses improved parameters including sampling frequency, pulse width and impulse amplitude to guarantee larger lager ranges and the highest resolution.

The high surge energy provides the necessary power to accurately pinpoint cable faults by using 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.

Modes

- Symmetrical / asymmetrical reflection measurement
- Difference measurement / comparison
- ARM[®] Arc Reflection Methods
- ICE impulse current decoupling methods
- DECAY Travelling wave method
- IFL Intermittent Fault Location

Megger.

TECHNICAL DATA*

Teleflex SX

Range

20 m ...160 km @ v/2 = 80 m/μs

 $\begin{array}{lll} \textbf{Pulse width} & 20 \text{ ns } ... 10 \, \mu s \\ \\ \textbf{Pulse amplitude} & 10 \, ... \, 50 \, V \end{array}$

Accuracy of the $\pm 0.2 \%$ of the measuring range

distance measurement

Resolution 0.1 m @ v/2 80 m/μs, 1.0 cm @ v/2

< 40 m/µs

De-attenuation $0 \dots + 22 \, dB$ for ProRange

(adjustable 0 ... 100 %)

Propagation velocity v/2 10 ... 149,9 m/µs, ft/µs or nvp

Compensation $10 \Omega \dots 500 \Omega$, adjustable

ARM trigger Automatic adaptation by ΔU Trigger or

L1H edge trigger

ARMslide 15 measurements in one ARM shot

Dead zone None

Voltage proof input < 400 V, operation only with separation

filter

Display 10.4" color TFT XGA 1024x768,

touchscreen, 600 cd/m2, LED-Backlight,

dimmable

Data storage2 GB mSATA for program and dataConnectorsEthernet, USB, BNC, CAN (LON optional)

 Protection class
 IP 65 closed, IP 54 open lid

 Supply
 110 ... 240 V, 50/60 Hz, 30 VA

10 V ... 17 V DC, 3.8 A

Dimensions (W x H x D) 362 x 195 x 306 mm (option 19", 6 HU)

Weight 10 kg

Operation temperature $-10 \,^{\circ}\text{C} \dots + 50 \,^{\circ}\text{C}$ Storage temperature $-20 \,^{\circ}\text{C} \dots + 60 \,^{\circ}\text{C}$ **HV** module

 SPG 12
 SPG 16

 Testing
 0 ... 17 kV
 0 ... 24 kV

 Surge
 0 ... 3 kV; 1100 J
 0 ... 4 kV; 2000 J

0 ... 6 kV; 1100 J 0 ... 8 kV; 2000 J 0 ... 12 kV; 1100 J 0 ... 16 kV; 2000 J

Burning 0 ... 12 kV; 200 mA 0 ... 16 kV; 200 mA

Surge rate

Sheath fault locating

IP-grade

Protection class

Operation temperature

3 ... 10 sec, single pulse
0 ... 5 kV, 120 mA
IP 20
IP 20
-10 °C ... + 50 °C

Weight approx. 135 kg

Connection cables and supply

Connection cable 6 m HV test lead **Mains supply** 230 V; 50 Hz / 2 kVA

Isolation transformer 2 kVA (ca. 26 kg)

(opt. 110 V step-up transformer)

Dimensions (W x H x D) 800 x 1280 x 800 mm

ORDERING INFORMATION	
Product	Order no.
Surgeflex 12-1100 consisting of: Surge Unit SPG 12, 3/6/12 kV, 1100 J with ARM & ICE 12 kV, test voltage up to 17kV, 230V AC input, set of cables, trolley, separation transformer 2000VA, TFX SX	SFX12P-1100-P-SX-N
Surgeflex 16-2000 consisting of: Surge Unit SPG 16, 4/8/16 kV, 2000 J with ARM & ICE 16 kV, test voltage up to 24kV, 230V AC input, set of cables, trolley, separation transformer 2000VA, TFX SX	SFX16P-2000-P-SX-N
Options:	
digiPHONE+	1003316-S
digiPHONE+ NT Set	1003317-S
ESG NT Set	1004629-S

^{*} We reserve the right to make technical changes.