

Teleflex SX

Portable reflectometer for fault location systems



- **ARMslide technology with 15 traces in one ARM shot**
- **ProRange for optimised display of distant details**
- **Supports all existing prelocation technologies**
- **Automatic adjustment and display of cable end and fault**
- **Compatible with all fault location systems**

DESCRIPTION

In the new **Teleflex SX**, the properties of the Teleflex VX have been transferred into a handy, portable design operated by a new touchscreen and the well-proven control knob. The interface is shown on a sharp, bright 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 ranges and the highest resolution.

The Teleflex SX's touchscreen operation promotes easier and faster handling, especially in the case of detailed data entry, which is required in the reporting menu, as well as applying comments to measurements.

The **ΔU Trigger** technology always provides the exact trigger at the correct moment.

The **ARMslide** records 15 traces in one shot, allowing the operator to select the best trace. This is very helpful for long, wet cables.

The **ProRange** function makes a distance adapted gain possible: it displays far distant events with the same amplitude as from short distances.

Through the CAN interface, the **Teleflex SX** becomes the control and measurement unit of the SPG 40 fault location system, allowing for easier and more intuitive over the complete fault location process.

The standout Linux®-based operating system offers the highest standard of reliability.

TECHNICAL DATA*

Teleflex SX

Distance range	20 m ... 160 km at v/2 = 80 m/μs
Pulse width	20 ns ... 10 μs
Pulse amplitude	10 ... 50 V
Resolution	0.1 m at v/2 80 m/μs, 1.0 cm at v/2 < 40 m/μs
Sampling rate	Up to 400 MHz (real sampling rate)
Amplification	-37 ... +37 db
De-attenuation	0 ... +22 dB for ProRange (adjustable from 0 to 100%)
Transit time setting v/2	10 ... 149.9 m/μs, ft/μs or nvp
Dynamic response range	> 80 dB
Output impedance	50 Ω
Adjustment	8 Ω ... 500 Ω, adjustable
ARM trigger	Automatic adjustment with ΔU trigger
Blind spot	No
Withstand voltage	< 400 V, operation only with separation filter
Display	10.4" colour TFT XGA 1,024 x 768, capacitive touchscreen, 600 cd/m ² , LED backlight, dimmable
Memory	4 GB mSATA for program and data
Connections	Ethernet, USB, BNC, CAN (LON optional)
Protection class	IP 65 enclosed, IP 54 open
Supply	Battery operation, 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 195 mm (option 19" plug-in, 6 HE)
Weight	10 kg
Operating temperature	-10 °C ... +50 °C
Storage temperature	-20 °C ... +60 °C

OPTIONS

- Separation filter TF3-1 (for the operation on life voltages up to 600 V, CAT IV)
- PD pinpoint

The Teleflex SX is available as portable, battery operated stand-alone version but can also be integrated in any measuring system with 19" rack mounting (6 HU).

* We reserve the right to make technical changes.

ALL ADVANTAGES AT A GLANCE

- Large 10.4" sunlight-readable colour display
- Easiest operation by touchscreen and control knob
- Onscreen keyboard for comments
- Support of all existing prelocation technologies
- Automatic trace analysis (cable end and fault position indication)
- Integrated battery
- Top performance
- Compatible with all fault location systems

FUNCTIONS

- ARMSlide with 15 traces per ARM shot
- ProRange technology
- Dual phased reflectometer (TDR) with simultaneous colour display of up to 6 traces
- Phase selection for 3 lines
- High resolution by real sample rate of 400 MHz
- Internal compensation for better details at short range
- Large 2 GB memory for automatic storage of all data
- USB interface for data transfer via flash drive and printer
- Control of the SPG 40 via CAN-Bus
- Automatic data storage
- Report generation in *.pdf format
- Many user languages available
- More than 1.000 measurement records storable in database
- Logging function

THE TELEFLEX SX SUPPORTS THE FOLLOWING TECHNOLOGIES:

- Symmetrical / unsymmetrical reflection measurement
- Difference measurement / comparison
- Two-canal reflection measurement (TDR)
- Optimised support of all arc reflection methods by ΔU trigger or LTH edge trigger
- ICE (impulse current methods)
- IFL (intermittent fault locating)
- Decay travelling wave method
- ARM burning
- Partial discharge pinpointing

ORDERING INFORMATION

Product	Order no.
Teleflex SX	1003393
Teleflex SX - M (19" version)	2004996

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