

# Teleflex VX

## System reflectometer for fault location systems



- Automatic end and fault detection
- Easiest operation via intuitive menus
- ARMSlide Technology
- ProRange for optimised display of distant details
- Automatic storage of all measurements
- Supports all existing prelocation technologies

### DESCRIPTION

As all reflectometers of the Teleflex series, the new Teleflex VX is especially designed for the fast processes during the fault location in power cables. The new hardware with significantly improved parameters such as sampling frequency, pulse width and pulse amplitude, offers a larger range, highest resolution and above all, improved measurement.

The  $\Delta U$  Trigger technology always provides the perfect trigger timing. The ARMSlide records 15 traces in one shot and allows the selection of the best trace, especially for wet and long cables. The ProRange function allows a range-based gain adjustment, displaying distant reflections with the same amplitude as from short distances.

The USB interface permits a very easy data transfer either as PDF files, as data set to the Winkis database software, or directly to a printer.

The Teleflex VX can be integrated into a system also via the Ethernet, which allows the unproblematic remote control in offshore applications and ROVs.

#### The Teleflex VX supports the following technologies:

- Three-phased reflection measurement (TDR)
- Optimised support of all Arc Reflection Methods by  $\Delta U$  Trigger
- All ICE – Impulse Current Methods
- IFL – Intermittent Fault Location
- Voltage Decay Method
- ARM Burning
- Integrated insulation and capacity measurement

The Teleflex VX can be integrated in any measuring system with 19" mounting, but is also available as portable stand-alone version. Older systems can be upgraded.

The Linux @-based operating system stands out by highest reliability.

### FUNCTIONS

- Very easy operation by rotary encoder
- Three-phased reflectometer (TDR) for simultaneous colour display of all three phases
- Automatic trace analysis (cable end and fault position indication)
- Large, bright 15" colour display
- High resolution by sampling rate of 400 MHz
- Internal compensation for better fault location at short range
- Large 2 GB memory for data storage
- USB interface for memory stick and printer
- Report generation in \*.pdf format
- Many user languages available
- Remote operation of the SFX 40

### SPECIFICATIONS

<b>Range</b>	20 m ... 1280 km at v/2 = 80 m/μs
<b>Pulse width</b>	20 ns ... 10 μs
<b>Pulse amplitude</b>	1 x 10 <sup>-5</sup>
<b>Resolution</b>	0.1 m @ v/2 80 m/μs, 1 cm @ v/2 < 40 m/μs, 20 – 50 m
<b>Sample rate</b>	Up to 400 MHz
<b>Gain</b>	- 37 ... +37 db
<b>De-attenuation</b>	0 ... +22 dB for ProRange (adjustable 0 ... 100 %)
<b>Propagation Velocity V/2</b>	10 ... 149.9 m/μs, ft/μs or nvp
<b>Dynamic range</b>	> 80 dB
<b>Output impedance</b>	50 Ω
<b>Compensation</b>	8 Ω ... 2 KΩ, adjustable
<b>ARM trigger</b>	Automatic adaptation by ΔU trigger
<b>ARMslide</b>	15 measurements in one ARM shot
<b>Dead zone</b>	None
<b>Voltage proof input</b>	>400 V
<b>Modes</b>	<ul style="list-style-type: none"> <li>- Symmetrical/unsymmetrical/ reflection measurement</li> <li>- Difference / comparison</li> <li>- All ARM Arc Reflection Methods</li> <li>- All ICE impulse current decoupling methods</li> <li>- DECAY Travelling wave method</li> <li>- IFL Intermittent Fault Location</li> <li>- Arc reflection burning</li> </ul>
<b>Display</b>	15" Colour TFT SXGA with CCFL-Backlight, 300cd/m <sup>2</sup>
<b>Data storage</b>	2 GB each for program, data, recovery
<b>Connectors</b>	Ethernet, USB, Measuring inputs
<b>Supply</b>	100 ... 240 V, 50/60 Hz, 50 VA
<b>Dimensions (W x H x D)</b>	483 x 295 x 200 mm (19", 6 HU)
<b>Weight</b>	13 kg
<b>Operating temperature</b>	-10 °C ... +50 °C
<b>Storage temperature</b>	-20 °C ... +60 °C
<b>OPTIONS</b>	
<ul style="list-style-type: none"> <li>■ Overhead measuring system</li> <li>■ LDE 800 long distance measuring system</li> <li>■ Separate control panel with rotary encoder</li> </ul>	

<b>Teleflex VX-P - Portable version</b>	
<b>ISO Measurement</b>	1 Ω ... 2 GΩ, max. 500 V
<b>Capacity measurement</b>	0.1 ... 19.9 μF
<b>Connectors</b>	3-ph. Lemoso, 3 x BNC, USB
<b>Protection class</b>	IP54 open / IP 65 closed
<b>Dimensions (W x H x D)</b>	525 x 445 x 220 mm
<b>Weight</b>	20 kg



### ORDERING INFORMATION

Item	Cat. No.
Teleflex VX	290.9002183
Teleflex VX-P	890008142

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