



Teleflex VX

System Reflectometer for fault location systems

Benefits

- ▶ Automatic end and fault detection
- ▶ Easiest operation via intuitive menus
- ▶ ARM Slide 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 **ΔU Trigger** technology always provides the perfect trigger timing. **ARM Slide** records 15 traces in one shot and allows the selection of the best trace, especially for wet and long, difficult 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 easiest data transfer to a USB stick as PDF file, 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.

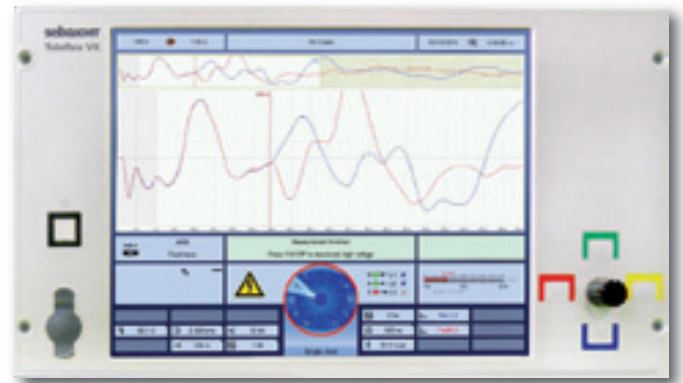
The Teleflex VX supports the following technologies

- ▶ Three-phase reflection measurement (TDR)
- ▶ Optimised support of all Arc Reflection Methods by **ΔU Trigger**
- ▶ All ICE – Impulse Current Methods
- ▶ IFL – Intermittent Fault Location
- ▶ Voltage Decay Method
- ▶ ARM Burning

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.

Features

- ▶ Easiest 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



Technical Data

Range	20 m ... 1280 km @ v/2 = 80 m/μs
Pulse width	20 ns ... 10 μs
Pulse amplitude	30 ... 160 V
Resolution	0.1 m @ v/2 80 m/μs, 1.0 cm @ v/2 < 40 m/μs
Gain	- 37 ... +37 db
De-attenuation	0 ... +22dB for ProRange (adjustable 0 ... 100 %)
Sample Rate	Up to 400 MHz
Propagation Velocity V/2	10 ... 149,9 m/μs, ft/μs oder nvp
Dynamic range	> 80 dB
Output impedance	50 Ω
Compensation	8 Ω ... 2 KΩ, adjustable
Voltage proof input	> 400 V
ARM trigger	Automatic adaptation by ΔU Trigger.
ARM Slide	15 Measurements in one ARM Shot
Dead zone	None
Voltage proof input	> 400 V
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	15" Colour TFT SXGA with CCFL-Backlight, 300cd/m ²
Data Storage	2 GB Flash each for program, data and recovery
Connectors	USB, Ethernet, RS232, DVI
Supply	110 ... 240 V, 50/60 Hz, 50 VA
Dimensions (w x h x d)	483 x 295 x 200 mm (19", 6 HU)
Weight	13 kg
Operation temperature	-10 °C ... +50 °C
Storage temperature	-20 °C ... +60 °C

Options

- ▶ LDE 800
- ▶ Overhead measuring system
- ▶ Integrated ISO measurement
- ▶ Direct control of the OWTS systems
- ▶ Separate control panel with rotary encoder