

TFS-2000 Series

Optical Time-Domain Reflectometers

- 32 dB Dynamic Range
- Instantaneous Testing
- Short Dead Zone
- One Button Testing
- Trace Overlay Capability
- Visible Fault Locator
- Event Table with Pass/Fail Feature
- USB and Mini USB Ports



The TFS-2000™ Series of OTDRs are ideal for everyday use in the field on a wide variety of networks. Featuring speed, dynamic range, an easy to read color display, a rugged package, short dead zone and of course all at an affordable price. This light weight, easy-to-use OTDR can be operated by a novice while at the same time be appreciated by a seasoned user.

Trilithic's new OTDR series of fiber solutions are available in dual singlemode, dual multimode and quad wavelength configurations. Testing is made simple and fast with the press of the Auto Test button. Examine the trace using the zoom feature, A/B cursor selection button and touch-wheel. Zero in on events fast with the powerful event selection feature or with the event analysis table.

The abundant dynamic range and a 2 meter dead zone, makes the TFS-2000 Series ideal for links up to 240 km as well as being perfect for short LAN links within the facility. Weighing in at just 2.0 pounds with a hardened water resistant enclosure, this OTDR is ideal for all conditions. The rubber boot will add protection and provides a kick stand for the ideal angle for viewing the display while operating on a workbench.

Trace analysis and reporting are fast and easy with a Pass/Fail feature, onboard event table or the compatible software with multi-trace capability. The OTDR has on board storage of 1000 traces with the ability to download traces directly to your computer via USB cable or use a USB Flash Drive.

Use a power meter and light source to accomplish insertion loss test measurements. When paired with a companion power meter or light source the units have auto-wavelength and auto-test capabilities for advanced end to end measurements.

TFS-2000 Series

Optical Time-Domain Reflectometers

SPECIFICATIONS

Optical Time Domain Reflectometer	
Wavelength	TFS-2225: 850 nm, 1300 nm \pm 20 nm TFS-2250: 1310 nm, 1550 nm \pm 20 nm TFS-2500: 850 nm, 1300 nm, 1310 nm, 1550 nm \pm 20 nm
Dynamic Range	27/26 dB MM, 32/30 dB SM, 30/29 dB TRI
Pulse Width	20 - 10,000 ns
Units of Measurement	km, kf
Event Dead Zone	2 m
Attenuation Dead Zone	5 m
Resolution	.25 - 64 m
Distance Uncertainty	\pm (0.75 m + 0.005% x distance + sampling resolution)
Full Scale Distance Range	1-64 km MM , 1-240 km SM
Typical Real-time Refresh Rate	4 Hz
Group Index of Refraction (GIR)	1.000 - 2.000
Linearity	\pm .05 dB/dB
Memory Capacity	1000
Visible Light Source	
Emitter Type	Laser
Wavelength	650 nm \pm 5 nm
Laser Safety Class	Class IIFDA21 CFR1040.10 &1040.11 IEC 825-1:1993
Connector Type	2.5 mm Universal
Output Power	<1 mW Max.

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Power Meter	
Detector Type	InGaAs
Calibrated Wavelength	850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm, 1625 nm
Units of Measure	dBm, dB
Resolution	0.01 dB
Power Measurement Range	+5 dBm to -77 dBm (CATV +25 dBm to -57 dBm)
Power Measurement Uncertainty	±0.18 dB under reference conditions, ±0.25 dB from 0 to -65 dBm ±0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Power Measurement Range	+5 dBm to -77 dBm (CATV +25 dBm to -57 dBm)
Autotest Measurement Rate	Four seconds per wavelength
Autotest Range	0 to -36 dB
Storage Locations	10,000
IR Light Source	
Wavelengths	TFS-2225: 850 nm, 1300 nm ±20 nm TFS-2250: 1310 nm, 1550 nm ±20 nm TFS-2500: 850 nm, 1300 nm, 1310 nm, 1550 nm ±20 nm
Output Power (CW)	0 dBm (-3 dBm @1625 nm)
Laser Safety Class	Class I safety per FDA/CDRH and IEC-825-1 regulations
Modulation Modes	CW, 270 Hz, 1000 Hz, 2000 Hz
General	
Memory Type	Internal and Flash Drive
Power Supply/Charger	Universal
Battery	8hr
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C



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Integrate Loss Test Set



AVAILABLE OPTIONS:

TFS-2225 Dual Wavelength OTDR
(850/1300 nm)

P/N 2011385000

TFS-2250 Dual Wavelength OTDR
(1310/1550 nm)

P/N 2011385010

TFS-2500 Quad Wavelength OTDR
(850/1300/1310/1550 nm)

P/N 2011385020

INCLUDES THE FOLLOWING:

TFS-2000 Series OTDR

Companion Software with USB Cable

Interchangeable SC/ST/FC Adapters

AC to DC Universal Adapter/Charger
with US, IK, European & Australian
Plugs

Four (4) "AA" NiMH Rechargeable
Batteries

Operation Manual on CD

Interactive Event Table

Pressing the Select button while on a highlighted event will revert to the Trace View with the active cursor positioned at the selected event.

#	P/F	METERS	SPLICE	2POINT	dB/Km	TYPE
1	✓	184	+ 0.12	+ 0.00	- 0.03	Splice
2	✗	363	+ 1.08	+ 0.04	+ 0.23	Splice
3	✗	545	+ 0.95	+ 0.04	+ 0.26	-55dB
4	✓	729	+ 0.97	+ 0.05	+ 0.32	-64dB
5		911	- 1.81	+ 0.04	+ 0.22	End

RELATED PRODUCTS:

TFS-3200C C-Band Optical Spectrum
Analyzer (1530 to 1565 nm)

P/N 2011384000

TFS-3200L L-Band Optical Spectrum
Analyzer (1565 to 1625 nm)

P/N 2011384010

TFS-3200S S-Band Optical Spectrum
Analyzer (1460 to 1530 nm)

P/N 2011384020

Trace View

The Trace View is a graphic representation of fiber optic loss versus distance which includes measurements of interest and settable parameters.

