



Features

- Fast, accurate OTDR network characterization or fault location
- Test up to 1:64 PON with 20 m PON dead zone
- Easy to understand LinkMap results with pass/fail indications
- 1310/1550/1650 nm PON OTDR (in- or out-of-service testing)
- 1310/1550 nm versions for complete network characterization
- 1550 and 1650 nm versions for cost-effective troubleshooting
- Integrated Source, Power Meter, VFL (visual fault locator)
- Bluetooth and WiFi communications
- Compatible with FOCIS Flex connector inspection system
- Rugged, lightweight, hand-held for field use
- Large, bright touchscreen display easily viewed indoors and out
- Internal / external data storage via USB, Bluetooth, or WiFi

Applications

- PON or point-to-point network verification or troubleshooting
- OTDR testing plus Insertion Loss and Power measurements
- Locate faults exceeding industry or user pass/fail thresholds
- Visually pinpoint location of macro-bends or breaks inside cabinets and splice closures

Performance-packed: With SmartAuto multi-pulse acquisition, up to 37 dB dynamic range and best-in-class 20 m PON dead zone, FLEXSCAN PON OTDRs test FTTH PONs up to 1:64 while still detecting and measuring events only meters apart.

User-friendly: FLEXSCAN OTDRs enable both novice and expert technicians to quickly, reliably and accurately detect, locate, identify and measure optical network components and faults. After applying industry-standard or user-set pass/fail criteria, the network is displayed using FLEXSCAN's intuitive, icon-based LinkMap view. Acquired results may be stored internally or externally. FLEXSCAN automates test setup, shortens test time and simplifies results interpretation, improving efficiency and reducing the cost of test.

Pocket-sized: At 3.5 x 6 x 1.75 in. (86 x 160 x 43 mm) and less than one pound (0.4 kg), FLEXSCAN OTDRs truly fit in your pocket, yet still provide a large, bright indoor/outdoor touchscreen display and all-day operation.

And Affordable: With optional connector inspection, integrated source, power meter and VFL, FLEXSCAN offers an all-in one solution, ensuring technicians have everything they need to locate and resolve optical network issues. Uploaded results may be viewed and reports may be generated using the included Windows-compatible TRM® 2.0 Test Results Manager software.

Available in Convenient, Cost-saving Installation and Troubleshooting Kits - Bundle FLEXSCAN with your choice of launch cable, FOCIS Flex connector inspection probe and tips, and/or AFL's universal optical fiber identifier (OFI). The universal OFI works with all fiber types — including bend-insensitive fiber — and is available with or without integrated power meter (OFI-BIPM or OFI-BI).

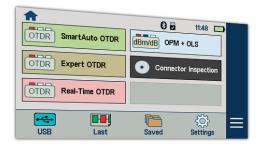






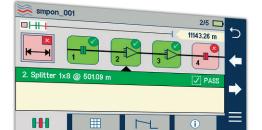






SmartAuto Provides Network-optimized Test Settings

In SmartAuto mode, a FLEXSCAN OTDR automatically determines the characteristics of the network under test and rapidly completes multiple scans using a variety of network-optimized acquisition settings. It precisely locates and identifies network events, as well as measures loss and reflectance for each detected event. SmartAuto supports two test modes: Locate End & Faults (for fast network troubleshooting) and Characterize Fiber (for more complete installation verification). For even greater ease-of-use, FLEXSCAN checks for live fiber and verifies the OTDR launch connection before initiating a test. Dual and triple-wavelength FLEXSCAN OTDRs also provide automatic macro-bend detection.



LinkMap Simplifies Network Troubleshooting

LinkMap with Pass/Fail enables even novice users to easily and accurately troubleshoot optical networks. LinkMap presents an icon-based view of the tested network clearly identifying fiber start, end, connectors, splices, PON splitters, and macro-bends.

A LinkMap Summary provides end-to-end link length, loss, loss per distance and ORL. Loss and reflectance of detected events is compared to industry-standard or user-settable pass/fail thresholds and displayed with clear pass/fail indications. Users can instantly toggle between LinkMap and Trace views.



Bluetooth and WiFi for Faster Connectivity

Pair FLEXSCAN with AFL's FOCIS Flex connector inspection probe for fast, easy connector end-face inspection.

FOCIS Flex provides auto-focus, auto-centering, integrated IEC pass/fail analysis, and automatic Bluetooth transfer of images and pass/fail results to FLEXSCAN for display and archiving.

FLEXSCAN's built-in WiFi also supports wireless remote control and file transfer to/from Windows PCs, Android and iOS mobile devices.



Complete Testing with a Single Tool

FLEXSCAN integrates a Visual Fault Locator (VFL) plus an optional optical laser source (OLS) and optical power meter (OPM) supporting AFL's unique Wave ID capability. With Wave ID, the power meter automatically synchronizes to a single or multiwavelength Wave ID optical signal sent by an AFL light source. The power meter automatically identifies received wavelengths and measures power and loss at each wavelength, saving significant test time and eliminating setup errors.

The VFL's eye-safe red laser enables users to visually pinpoint the location of macrobends and fiber breaks often found in splice closures and fiber cabinets.





FLEXSCAN OTDRs are available with 1310/1550/1650 nm, 1310/1550 nm and 1550 or 1650 nm only wavelengths. 1310 and 1550 nm versions are available with integrated Optical Light Source (OLS), Optical Power Meter (OPM), Visual Fault Locator (VFL) and Bluetooth/WiFi.

Specifications^a

OTDR Emitter Type Laser Safety Class b Class I Fiber Type Single-mode Wavelengths (nm) 1550 1650 1310/1550 1310/1550 / 1650 Center λ Tolerance ±20 nm (CW mode) Dynamic Range (dB) c 28 37 32/30 37/36 37/36/37 Event Dead Zone d (m) 1.0 0.8 0.8 0.8 0.8 Atten. Dead Zone f (m) N/A 30 N/A 20 20 Pulse Widths 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 ns; 1, 2, 3, 10, 20 μs Range Settings 250 m to 240 km Data Points Up to 300,000 (Expert mode .SOR file) Data Spacing 5 cm to 16 m Group Index of Refraction 1.3000 to 1.7000 Distance Uncertainty (m) ±(1 + 0.005% x distance + data point spacing) Linearity (dB/dB) ±0.05 Trace File Storage 4 GB internal memory (>1000 traces); Medium External USB memory stick Data Transfer to PC USB cable or Bluetooth® or WiFi (option) <t< th=""><th>MODEL: FS200-#</th><th>-50</th><th>-60</th><th>-100</th><th>-300</th><th>-304</th></t<>	MODEL: FS200-#	-50	-60	-100	-300	-304
Safety Class b Class I Fiber Type Single-mode Wavelengths (nm) 1550 1650 1310/1550 1310/1550 1310/1550/1650/1650 Center λ Tolerance ±20 nm (CW mode)	OTDR					
Fiber Type Single-mode Wavelengths (nm) 1550 1650 1310/1550 1310/1550 1310/1550/1650 Center λ Tolerance ±20 nm (CW mode) Dynamic Range (dB) separate (m) 28 37 32/30 37/36 37/36/37 Event Dead Zone separate (m) 1.0 0.8 0.8 0.8 0.8 Atten. Dead Zone feparate (m) N/A 30 N/A 20 20 PON Dead Zone feparate (m) N/A 30 N/A 20 20 Pulse Widths 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 ns; 1, 2, 3, 10, 20 μs 1, 2, 3, 10, 20 μs Range Settings 250 m to 240 km 250 m to 240 km 250 m to 240 km 20 Data Spacing 5 cm to 16 m Group Index of Refraction 1.3000 to 1.7000 1.7000 1.7000 1.7000 Distance Uncertainty (m) ±(1 + 0.005% x distance + data point spacing) 1.1000 1.1000 1.1000 1.1000 1.1000 1.1000 1.1000 1.1000 1.1	Emitter Type	Laser				
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PON Dead Zone f (m) N/A 30 N/A 20 20 Pulse Widths 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 ns; 1, 2, 3, 10, 20 µs Range Settings 250 m to 240 km Data Points Up to 300,000 (Expert mode .SOR file) Data Spacing 5 cm to 16 m Group Index of Refraction 1.3000 to 1.7000 Distance Uncertainty (m) ±(1 + 0.005% x distance + data point spacing) Linearity (dB/dB) Trace File Format Telcordia SR-4731 Issue 2 Trace File Storage 4 GB internal memory (>1000 traces); External USB memory stick Data Transfer to PC USB cable or Bluetooth® or WiFi (option) Standard OTDR Modes Display Modes LinkMap Summary, LinkMap Events, Trace Real-time Refresh Rate Up to 4 Hz Live Fiber Protection No OTDR damage with input power ≤ +3 dBm for wavelength(s) in range 1260 to 1675 nm Live Fiber Detection Reports live fiber with input signal ≥ -35 dBm for wavelength(s) in range 1260 to 1675 nm Live PON Filter Isolation Live PON Filter Isolation Live PON OTDR Test Visual Fault Locator (VFL) Emitter Type Visible red laser, 650 ±20 nm	Event Dead Zone d (m)	1.0	0.8	0.8	0.8	0.8
Pulse Widths 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 ns; 1, 2, 3, 10, 20 μs Range Settings 250 m to 240 km Data Points Up to 300,000 (Expert mode .SOR file) Data Spacing 5 cm to 16 m Group Index of Refraction 1.3000 to 1.7000 Distance Uncertainty (m) ±(1 + 0.005% x distance + data point spacing) Linearity (dB/dB) ±0.05 Trace File Format Telcordia SR-4731 Issue 2 4 GB internal memory (>1000 traces); External USB memory stick Data Transfer to PC USB cable or Bluetooth® or WiFi (option) Standard OTDR Modes Display Modes LinkMap Summary, LinkMap Events, Trace Real-time Refresh Rate Up to 4 Hz Live Fiber Protection No OTDR damage with input power ≤ +3 dBm for wavelength(s) in range 1260 to 1675 nm Live Fiber Detection Reports live fiber with input signal ≥ -35 dBm for wavelength(s) in range 1260 to 1675 nm Live PON Filter Isolation Live PON Filter Isolation Live PON OTDR Test Visual Fault Locator (VFL) Emitter Type Visible red laser, 650 ±20 nm	Atten. Dead Zone e (m)	6.0	3.5	3.6	3.5	3.5
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Real-time Refresh Rate Up to 4 Hz Live Fiber Protection No OTDR damage with input power ≤ +3 dBm for wavelength(s) in range 1260 to 1675 nm Live Fiber Detection Reports live fiber with input signal ≥ -35 dBm for wavelength(s) in range 1260 to 1675 nm Live PON Filter Isolation >50 dB for 1260 nm ≤ wavelength ≤ 1600 nm Live PON OTDR Test 1650 nm using filtered detector VISUAL FAULT LOCATOR (VFL) Emitter Type Visible red laser, 650 ±20 nm	Standard OTDR Modes	Smart/	Auto, Ex	pert, Real Tim	е	
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Live PON OTDR Test 1650 nm using filtered detector VISUAL FAULT LOCATOR (VFL) Emitter Type Visible red laser, 650 ±20 nm	Live Fiber Detection				9	
VISUAL FAULT LOCATOR (VFL) Emitter Type Visible red laser, 650 ±20 nm	Live PON Filter Isolation	>50 df	3 for 12	60 nm ≤ wav	elength ≤ 16	00 nm
Emitter Type Visible red laser, 650 ±20 nm	Live PON OTDR Test	1650 r	ım usinç	g filtered dete	ector	
71	VISUAL FAULT LOCATOR	(VFL)				
Safety Class II	Emitter Type	Visible	red lase	er, 650 ±20 n	m	
	Safety Class b	Class II				

MODEL: FS200-#	-50	-60	-100	-300	-304
Output Power (nominal)	0.8 mV	V into s	ingle-mode f	iber	
Modes	CW, 2	Hz flash	ning		
OPTICAL LASER SOURC	E - OLS	(Optio	nal)		
Emitter Type	Laser				
Safety Class b	Class I				
Fiber Type	Single-	mode			
Wavelengths (nm)	1550	N/A	1310/1550	1310/1550	1310/1550
Center λ Tolerance	±20 nr	n (CW r	mode)		
Spectral Width (FWHM)	5 nm (maximu	ım)		
Internal Modulation	270 Hz	z, 330 H	lz, 1 kHz, 2 k	Hz, CW, Wave	e ID
Wave ID	Compa	tible w	ith AFL OPM/	OLS	
Output Power Stability	≤ ±0.1	dB (15	minutes); ≤	±0.15 dB (8	hours)
Output Power	-3 dBm	-3 dBm ±1.5 dB			
OPTICAL POWER METER -OPM (Optional)					
Calibrated Wavelengths	1310,	1490, 1	550, 1625, 1	650 nm	
Detector Type	InGaAs	s, 2 mm	diameter		
Measurement Range	+23 to	-50 dB	m		
Tone Detect Range	+3 to -	-35 dBn	n		
Wavelength ID Range	+3 to -	-35 dBn	n		
Accuracy h	±0.25	dB			
Resolution	0.01 d	В			
Measurement Units	dB, dBm or Watts (nW, μW, mW)				
GENERAL					
Size (in boot)	86 x 16	60 x 43	mm		
Weight	0.4 kg				
Operational Temperature	-10 °C	to +50	°C, 0 to 95	% RH (non-co	ondensing)
Storage Temperature	-40 °C	to +70	°C, 0 to 95	% RH (non-co	ondensing)
Power			Li-polymer or		
Battery Life			cordia test co		
Display	Color t	ouchscr	een 4.3 in LO	D, 480x272,	backlit
USB Ports			o-USB functio		
Bluetooth (optional)	Compa	atible w	ith Windows	PC, Android	
WiFi (optional)	IEEE 80	02.11/	WLAN		

Notes:

- a. All specifications valid at 25 °C unless otherwise specified.
- b. FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03.
- c. (RMS, SNR=1) Measured using maximum range, widest pulse width and 3 minutes averaging.
- d. Typical distance between the two points 1.5 dB down each side of a reflective spike caused by a -45 dB event using 5 ns pulse width.
- e. Typical distance from the location of a -45 dB reflective event to the point where the trace falls and stays within 0.5 dB of backscatter, using a 5 ns pulse width.
- f. Recovery to within 0.5 dB of backscatter after 1:16 splitter (≤ 13 dB loss) using 100 ns pulse width.
- g. At calibration wavelengths and power levels of approximately -10 dBm.



FLEXSCAN Kit Configurations

FLEXSCAN is available in four kit configurations: Basic, Plus, PRO, and Complete. All kits include FLEXSCAN with AC charger, battery, carry strap, SC/2.5 mm connector adapters, TRM® 2.0, quick reference user guide, USB cable and carry case. Plus kits add a 150 m fiber ring and One-click cleaner. PRO kits additionally include a FOCIS Flex auto-focusing connector inspection probe with IEC pass/fail analysis and two adapter tips. Complete kits expand on PRO Kits by adding a bend-insensitive fiber identifier with optional power meter (OFI-BI or OFI-BIPM).

Ordering Information

FS200-[MOD]-[KIT]-[PW]-[C]-[LNG]-[AC]-[FR]-[TIP]* where:

[MOD]	FS200 FLEXSCAN OTDR Configuration
50	1550 nm only Troubleshooting OTDR
60	1650 nm filtered Live PON Troubleshooting OTDR
100	1310/1550 nm Verification & Troubleshooting OTDR
300	1310/1550 Pt-to-Pt & PON Verification & Troubleshooting OTDR
304	1310/1550/1650 Pt-to-Pt & PON Verification & Troubleshooting OTDR

[KIT]	FS200 FLEXSCAN Kit Configuration
BAS	Basic kit with soft case, TRM 2.0 Basic, USB cable
PLUS	PLUS kit adds 150 m SMF Fiber Ring and One-Click cleaner
PRO	PRO kit adds Fiber Ring, One-Click cleaner, FOCIS Flex
BI	BI Complete kit adds OFI-BI to PRO kit
BIPM	BIPM Complete kit adds OFI-BIPM to PRO kit

[PW]	Power Meter / Wireless option
P0-W0	No Source, Power Meter, or Bluetooth/WiFi (FS200-50/60/100 only)
P0-W1	No Source or Power Meter; Includes Bluetooth/WiFi (FS200-300/304 only)
P1-W1	Includes Source, Power Meter, Bluetooth/WiFi (all models)

[C]	OTDR / Source Connector Type
Α	APC
U	UPC

[LNG]	Language Option
ENG	English
CHS	Simplified Chinese
CHT	Traditional Chinese
DEU	German
FIN	Finnish
FRA	French

[LNG]	Language Option
ITA	Italian
JPN	Japanese
POL	Polish
POR	Portuguese
SPA	Spanish

[AC]	Destination Country	AC Plugs	
US	USA	2-pin, US	
EU	European Union	2-pin, EU	
UK	United Kingdom	2-pin, UK	
CN	China, Australia	2-pin, SAA	

[FR]	150 m SMF Fiber Ring
Blank	N/A in Basic kits
SC/SC	FR1-SM-150-SC-SC
SC/FC	FR1-SM-150-SC-FC
SC/LC	FR1-SM-150-SC-LC
SC/ST	FR1-SM-150-SC-ST
SC/ASC	FR1-SM-150-SC-ASC
SC/AFC	FR1-SM-150-SC-AFC
SC/ALC	FR1-SM-150-SC-ALC
LC/LC	FR1-SM-150-LC-LC
LC/ASC	FR1-SM-150-LC-ASC
LC/ALC	FR1-SM-150-LC-ALC

[FR]	150 m SMF Fiber Ring
ASC/FC	FR1-SM-150-ASC-FC
ASC/ST	FR1-SM-150-ASC-ST
ASC/ASC	FR1-SM-150-ASC-ASC
ASC/AFC	FR1-SM-150-ASC-AFC
ASC/ALC	FR1-SM-150-ASC-ALC
ALC/ALC	FR1-SM-150-ALC-ALC
FC/FC	FR1-SM-150-FC-FC
FC/ST	FR1-SM-150-FC-ST
FC/LC	FR1-SM-150-FC-LC
FC/AFC	FR1-SM-150-FC-AFC
AFC/AFC	FR1-SM-150-AFC-AFC

[TIP]*	FOCIS Flex Tips & Cleaning (PRO only)
Blank	Option not available in Basic & PLUS kits
SC	SC-UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm cleaning
FC	FC-UPC bulkhead tip, 2.5 mm UPC ferrule tip, 2.5 mm cleaning
LC	LC-UPC bulkhead tip, 1.25 mm UPC ferrule tip, 1.25 mm cleaning
ASC	SC-APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm cleaning
AFC	FC-APC bulkhead tip, 2.5 mm APC ferrule tip, 2.5 mm cleaning
ALC	LC-APC bulkhead tip, 1.25 mm APC ferrule tip, 1.25 mm cleaning

^{*}For additional FOCIS Flex adapter tips, see FOCIS Flex data sheet or Buyer's Guide.







