AXS-200/350

part of the SharpTESTER Line
LAN Applications

NETWORK TESTING–OPTICAL

Features/Benefits

- Ideal for network-link characterization
- Clear, LED-based pass/fail assessment
- Error-free, semi-automatic loss testing
- Straightforward step-by-step loss testing wizard
- EXFO's AXS-200 platform advantages: modularity, connectivity and a high-legibility color screen
- Fiber inspection probe (FIP) port to prevent dirty and damaged connector problems
- Visual fiber location (VFL) capabilities for quick and easy troubleshooting
- CWDM test solution ready and high power detector

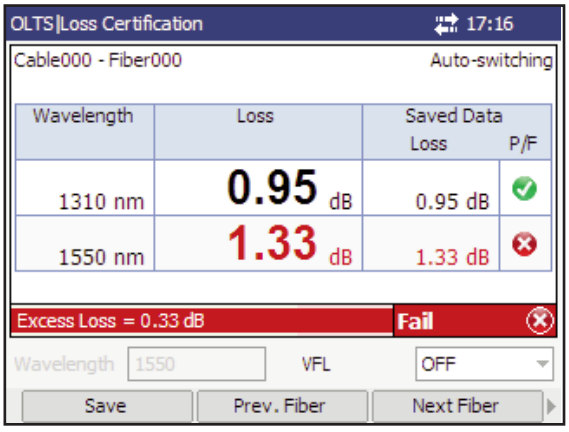
2004 FROST & SULLIVAN
2005 FROST & SULLIVAN
2006 FROST & SULLIVAN
2007 FROST & SULLIVAN
Global Fiber Optic Test Equipment Growth Strategy Leadership Award

Ideal for Network-Link Characterization

Combined with the EXFO's future-proof AXS-200 Handheld Modular Platform, the AXS-200/350 Optical Loss Test Set (OLTS) is the ideal tool for network-link characterization. Designed for first-class ease of use, the AXS-200/350 features a pass/fail LED indicator; what's more, it lets you set your own thresholds for loss measurements.

Thanks to its large data storage and its standard reporting software, the AXS-200/350 facilitates data management and enables data transfer via Bluetooth or USB connection. It also offers complete test report, including certification of the link with pass/fail information.

Moreover, the optional fiber inspection probe ensures that you perform a connection with clean connectors/adapters, exempt of any defect while the controlled multimode launching conditions ensures reliable and repeatable loss measurements; no loss variation due to uncontrolled launch conditions.

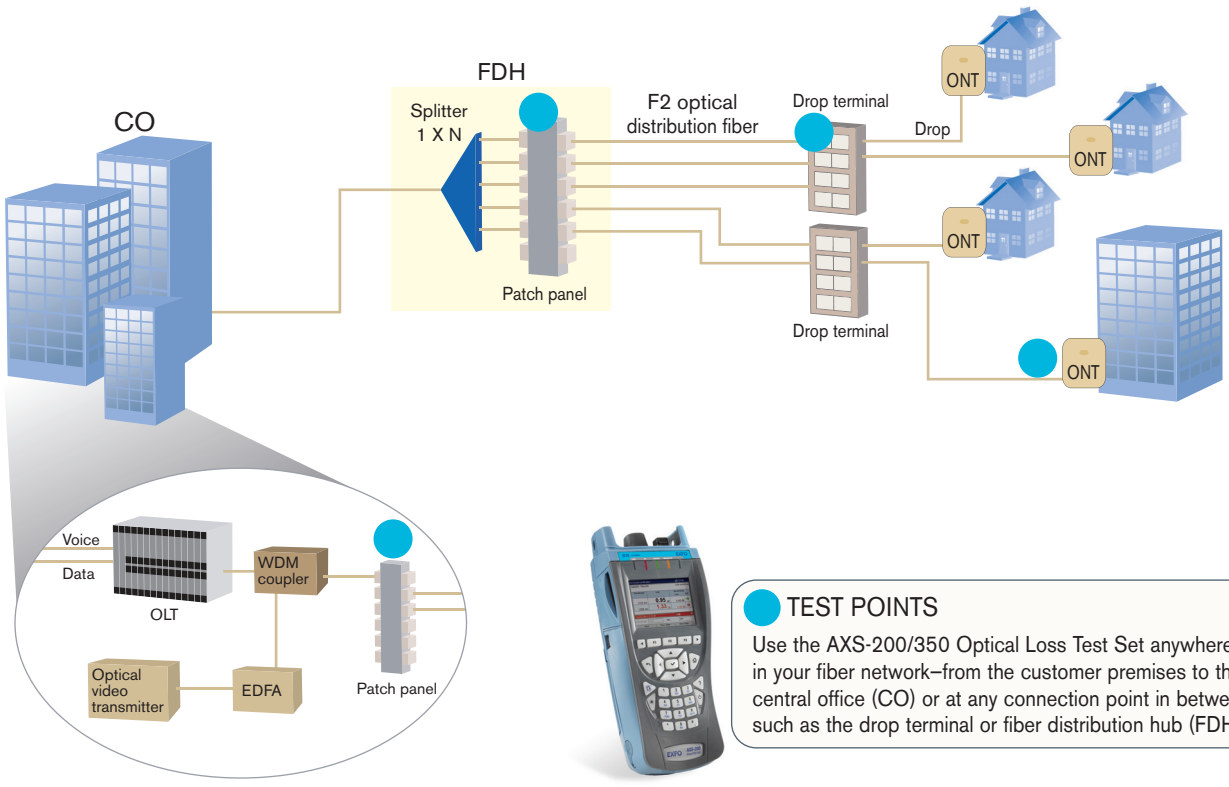


Quick access to test results.

Easy operation. Clear results. Error-free testing.

Key features and benefits

Easy-to-read pass/fail thresholds with visual LED feedback, error-free semi-automatic loss testing and loss wizard	Reduces operator errors and testing time in typical measurement situations.
AXS-200 SharpTESTER platform main characteristics: modularity, connectivity, weather-proof and high-legibility color screen	Expands with your network and service test requirements, covering copper/DSL/triple-play, Ethernet and other optical application; optimal viewing with the transflective screen; easy data transfer via Bluetooth or USB connection.
Fiber inspection probe support	Ensures that connectors/adapters are clean and exempt of any defect.
Visual fault locator capability	Provides quick and easy troubleshooting.
CWDM test solution ready and high power detector	Comes standard with 40 calibrated wavelengths, covering all CWDM wavelengths; supports high power GeX for CATV and FTTx radio frequency overlay applications.



EXFO's AXS-200/350 in the access network.

TEST POINTS

Use the AXS-200/350 Optical Loss Test Set anywhere in your fiber network–from the customer premises to the central office (CO) or at any connection point in between, such as the drop terminal or fiber distribution hub (FDH).

Error-free test features in a highly versatile module

When using the AXS-200/350 in Auto-Switching mode, the light source automatically toggles between available wavelengths. The power meter recognizes the wavelengths and automatically switches to the proper wavelength. With a press of a button, you can store results for all wavelengths at once, providing easy and error-free testing.

Thanks to its unique design, the AXS-200/350 OLTS reduces risk of error and measurement time in typical measurement situations, as the need for an offset nulling is eliminated.

In addition to network-link characterization features, the highly accurate AXS-200/350 offers over 40 calibrated wavelengths, including all CWDM wavelengths. What's more, it lets you measure power fluctuations with its Hold Min/Max Power function.

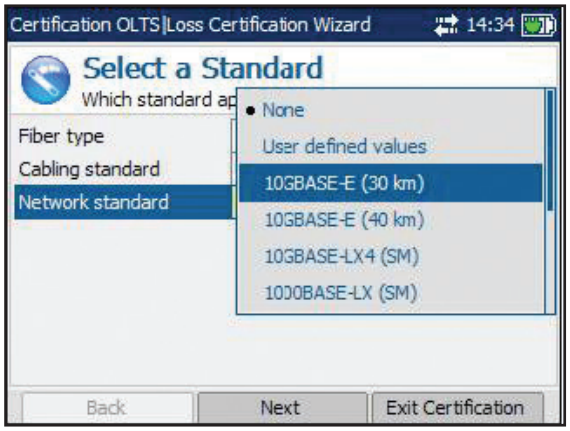
FTTx-ready

EXFO's AXS-200/350 allows for the testing of passive optical networks (PONs) at 1310 nm, 1490 nm and 1550 nm, the three wavelengths recommended by the ITU-T (G.983.3) for PONs.

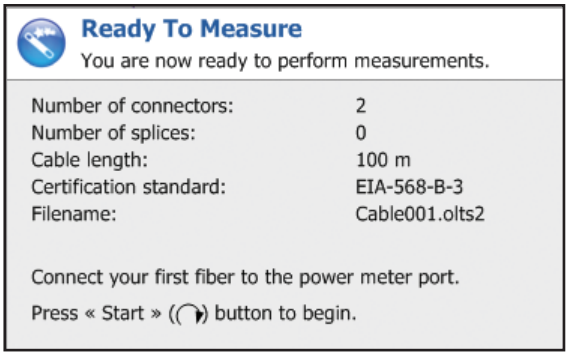
Certify your network in a snap

At first, just edit and save your standard. Than, it's the matter of a few easy steps to get the test results:

1. Select a standard
2. Follow the easy step by step loss wizard
3. Set reference
4. Start the test



Select a standard.



Step-by-step loss wizard.

Retest fibers as needed

If the loss measured is above the budget, the fiber can easily be retested.

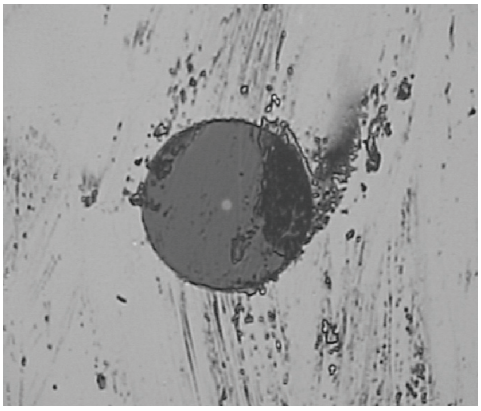
View all results at a glance

Once the cable is completely tested, the AXS-200/350 displays a table of all values measured along with pass/fail status, based on user-inputted fiber length.

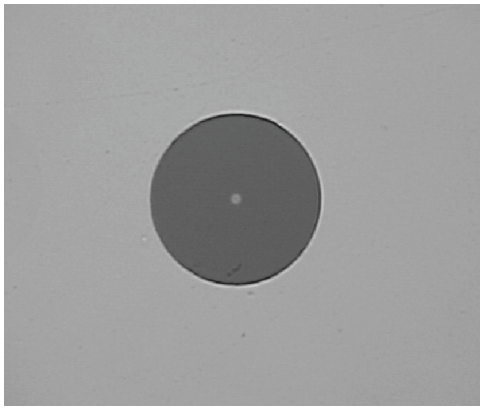
Connector inspection and cleaning

It's a fact! Most fiber network problems are caused by dirty, damaged or improperly installed connectors, which can lead to erroneous test results or poor transmission. Using a FIP to ensure connectors/adapters are clean and exempt of any defect is where accurate testing starts.

Avoid failing certification testing thanks to the FIP port on the AXS-200/350. Just plug EXFO's efficiently designed, unmatched FIP-400 Fiber Inspection Probe and you are all set! You will get the best ever optical resolution.



Dirty connector.

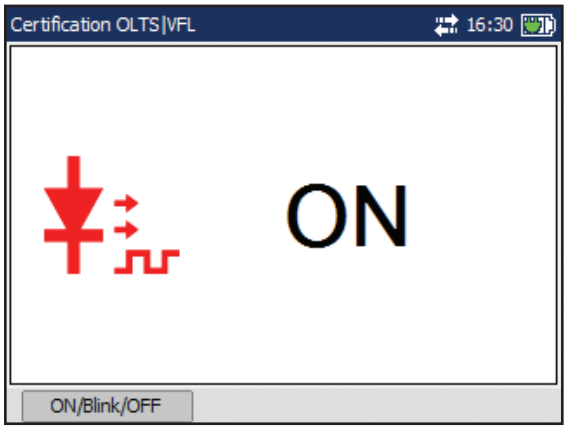


Clean connector.

AXS-200/350 with FIP-400.

Facilitating troubleshooting

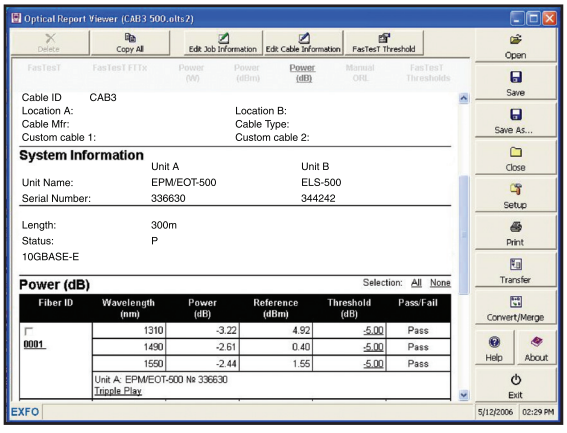
Troubleshoot link problems such as bad splices, macrobendings and fiber breaks using EXFO's visual fault locator. The VFL's bright red light helps you visually locate many near-end fiber faults and tests polarity. With this valuable and cost-efficient option, you will benefit from another opportunity to expand your business.



Visual fault locator.

Comprehensive certification reports using Optical Report Viewer

Save, upload, manage and print comprehensive certification reports with EXFO's Optical Report Viewer. Among its numerous features, this software's pass/fail thresholds, which are active during download, are automatically activated and displayed in the Report Viewer. It also enables you to produce professional-looking reports with detailed documentation.



Optical Report Viewer: main window.

AXS-200/350 SPECIFICATIONS [a] PRELIMINARY

Power Meter [b]	**AXS-200/352**	**AXS-200/352X**
Detector	Ge	GeX
Power range (dBm) [c]	10 to –70	26 to –55
Wavelength range (nm)	800 to 1650	800 to 1650
Calibrated wavelengths (nm)	800, 820, 830, 840, 850, 860, 870, 880, 910, 980, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1370, 1390, 1410, 1430, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650	Same calibrated wavelengths as the AXS-352 plus 1060
Power uncertainty [d]	±5 % ± 0.1 nW	±5 % ± 3 nW
Resolution (dB)	±0.01 (10 dBm to –60 dBm)	±0.01 (26 dBm to –45 dBm)
Automatic offset nulling [e]	Yes	Yes
Display units	dB, dBm, W	dB, dBm, W
Tone detection	270 Hz, 1 kHz and 2 kHz	270 Hz, 1 kHz and 2 kHz
Auto-switching [f]	Yes	Yes
Warm-up period (min) [e]	0	0
Data storage (fibers)	More than 10000	More than 10000
Battery life (hours) (typical in Auto mode)	7.5	7.5
Recommended calibration interval (years) [g]	3	3

Source Model	**12D**	**23BL**	**234BL**	**235BL**
Nominal wavelength (nm)	850 1300	1310 1550	1310 1550 1625	1310 1490 1550
Spectral width [h] (nm)	50/135	≤ 5	≤ 5	≤ 5
Output power (dBm)	≥ –20/≥ –20 (62.5/125 µm)	≥ 1/≥ 1	≥ 1/≥ –3/≥ –5	≥ 1/≥ –4.5/≥ –3
Auto-switching	Yes	Yes	Yes	Yes
Tone generation	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Battery life (hours) (typical in Auto mode)	7.5	7.5	7.5	7.5
Automatic wavelength recognition	Yes	Yes	Yes	Yes

GENERAL SPECIFICATIONS

Module size (H x W x D)	284 mm x 125 mm x 78 mm	(11 $^{3}/_{16}$ in x 4 $^{15}/_{16}$ in x 3 $^{1}/_{16}$ in)
Module weight (with battery)	0.98 kg	(2.16 lb)
Temperature		
operating	0 °C to 50 °C	(32 °F to 122 °F)
storage	–20 °C to 70 °C	(–4 °F to 158 °F)
Humidity	5 % to 95 % relative, non-condensing	
Power supply input	110-240 V to AC at 1.8A, 50 Hz to 60 Hz	
Power supply output	18 V to 24 V DC at 3.33 A to 2.50 A, 60 W	
Battery	Internal rechargeable Li-Ion battery, with battery state indication	
Self-test	Routine on power-up	
Results storage	128 Mbyte	
Languages	English, French, German, Spanish, Chinese (Simplified)	
Warranty (years)	3	

VFL [i]

Emitter type	Laser
Wavelength (nm)	650
Output power (dBm)	3

SAFETY

21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:
CLASS 1M LASER PRODUCT
CLASS 3R LASER PRODUCT FOR VFL

Notes

a. Preliminary specifications, at 23 °C ± 1 °C and with an FC connector.
b. At 1550 nm, unless otherwise specified.
c. In CW mode; sensitivity defined as 6 x rms noise level.
d. For calibrated wavelengths. Valid up to 5 dBm for AXS-200/352 and up to 15 dBm for AXS-200/352X.
e. For a variation of ±0.05 dB, from 18 °C to 28 °C, for power > –35 dBm for AXS-200/352 and > –25 dBm for AXS-200/352X.
f. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; for power > –50 dBm for AXS-200/352 and > –40 dBm (typical) for AXS-200/352X.
g. For power meter only.
h. rms for FP lasers; and –3 dB width for LEDs (typical values for LEDs).
i. Typical values in 62.5/125 µm fiber.

ORDERING INFORMATION

AXS-35X-XX-XX-XX-XX

Model
AXS-200/352-12D = Ge detector, 850/1300 nm LED source (62.6/125 µm)
AXS-200/352-23BL = Ge detector, 1310/1550 nm laser source (9/125 µm)
AXS-200/352X-23BL = GeX detector, 1310/1550 nm laser source (9/125 µm)
AXS-200/352-234BL = Ge detector, 1310/1550/1625 nm laser source (9/125 µm)
AXS-200/352X-234BL = GeX detector, 1310/1550/1625 nm laser source (9/125 µm)
AXS-200/352-235BL = Ge detector, 1310/1490/1550 nm laser source (9/125 µm)
AXS-200/352X-235BL = GeX detector, 1310/1490/1550 nm laser source (9/125 µm)
AXS-200/352-12D-23BL = Ge detector, 850/1300nm LED source (62.5/125 µm) and 1310/1550 nm laser source (9/125 µm)

Connector
EA-EUI-28 = APC/DIN 47256 [a]
EA-EUI-76 = APC/HMS-10/AG [a]
EA-EUI-89 = APC/FC narrow key [a]
EA-EUI-90 = APC/ST [a]
EA-EUI-91 = APC/SC [a]
EA-EUI-95 = APC/E-2000 [a]
EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000

Example: AXS-352-23BL-EI-EUI-89-VFL-FOA-22

Connector Adapter
FOA-12 = Biconic
FOA-14 = D4, D4/PC
FOA-16 = SMA/905, SMA/906
FOA-22 = FC (PC/SPC/UPC/APC), NEC-D3
FOA-28 = DIN 47256 (LSA): DIN 47256 (PC/APC)
FOA-32 = ST (PC/SPC/UPC)
FOA-40 = Diamond HMS-OHFS-3 (3.5 mm)
FOA-54 = SC (PC/SPC/UPC/APC)
FOA-76 = FSMA HMS-10/AG, HFS-10/AG
FOA-78 = Radiall EC
FOA-84 = Diamond HMS-10, HFS-13
FOA-96B = E-2000
FOA-98 = LC
FOA-99 = MU

Options
00 = Without VFL
VFL = With VFL

NOTE
a. Not available with multimode.

Rugged Handheld Solutions

OPTICAL
- OTDRs
- OLTSs
- Power meters
- Light sources
- Talk sets

COPPER ACCESS
- ADSL/ADSL2+, SHDSL, VDSL test sets
- VoIP and IPTV test sets
- Ethernet test sets
- POTS test sets

Platform-Based Solutions

OPTICAL FIBER
- OTDRs
- OLTSs
- ORL meters
- Variable attenuators

DWDM TEST SYSTEMS
- OSAs
- PMD analyzers
- Chromatic dispersion analyzer

TRANSPORT AND DATACOM
- Next-generation SONET/SDH and OTN testers
- SONET/DSn (DS0 to OC-192) testers
- SDH/PDH (64 kbit/s to STM-64) testers
- T1/T3, E1 testers
- 10/100 Mbit/s and Gigabit Ethernet testers
- Fibre Channel testers
- 10 Gigabit Ethernet testers

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