AXS-200/360

part of the SharpTESTER Line LAN Applications

NETWORK TESTING-OPTICAL



Features/Benefits

- Fiber loss wizard for step-by-step user-friendliness
- Editable and user-definable thresholds, consistent with all the latest industry standards
- Fiber inspection probe (FIP) support for assessing connector cleanliness and condition
- Pass/fail results on a bright, transflective screen for optimal viewing
- Compliant with the IEC 61280-4-1 standard-a first in the industry*
 - * Loss measurements performed on 50/125 µm multimode fiber using an external conditioner are in compliance with the encircled flux requirements for launch conditions of the IEC 61280-4-1 standard.





To validate that the performance of their fiber networks meets industry standards, enterprise network installers and contractors must make sure that fiber links are installed properly and within specifications. To achieve this, they need to perform fiber certification testing prior to network commissioning, which provides them with complete documentation to fully assess the quality of the fiber installation.

The AXS-200/360 Fiber Certification Test Set provides unparalleled ease of use and accuracy to perform all fiber certification and troubleshooting tasks. Moreover, it makes it simple to certify fiber to the latest standards.

Combined with the AXS-200 Handheld Modular Platform, the AXS-200/360 supports a user-friendly interface and numerous features. Optimized for various applications such as 10 Gbit/s transmission, this test set delivers optical loss measurements at multiple wavelengths automatically, verifies user-inputted fiber lengths, inspects connectors with the optional fiber inspection probe (FIP) and detects breaks with the optional visual fault locator (VFL).



Quick access to all test results.

Multimode and singlemode fiber certification

Your network may be comprised of multimode and singlemode fibers. Thanks to EXFO's complete test set, you can now test both fiber types without changing module. You only need one tester—the AXS-200/360. This instrument allows you to qualify the physical layer for Ethernet transmission at up to 10 Gbit/s on singlemode and multimode fibers.

A complete fiber certification solution

In addition to a power meter, fiber certification requires a light source, namely the FLS-600 Light Source, which comes with the AXS-200/360 kit.

- Up to three singlemode wavelengths (1310, 1550, and 1490 or 1625 nm) on a single port, or four wavelengths (850/1300 nm and 1310/1550 nm) on two ports
- New controlled multimode launching conditions for reliable loss measurements
- Three-year warranty for low cost of ownership
- Full-fledged unit that can be used for other test applications

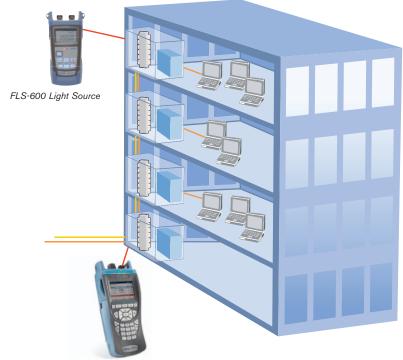




Easy operation. Clear results. Error-free testing.



Built for LAN networks.

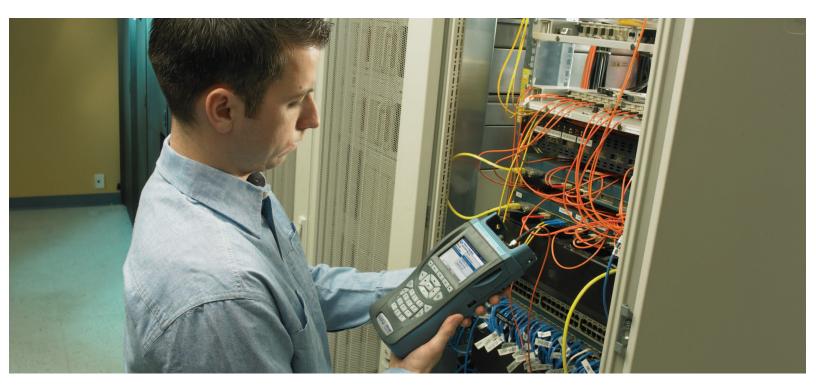


AXS-200/360 Fiber Certification Test Set

An Essential Fiber Certification Tool for Enterprise Network Installers and Contractors

Industry standards support	Offers user-configurable thresholds, consistent with industry standards: TIA/EIA-568-B.3,	
	ISO/IEC-11801, 10GBASE-LX4, 10GBASE-L, 10GBASE-E, 10GBASE-S, 1000BASE-SX, 1000BASE-LX, 100BASE-FX, 10BASE-FB, 10BASE-FL, FDDI, ATM-155, ATM-622, Token Ring 4 and 16 Mbit/s, Fibre Channel 1062 Mbit/s, Corning plug and play.	
AXS-200 SharpTESTER platform main characteristics: modularity, connectivity, weather-proofness and color display	Expands with your network and service test requirements, covering copper/DSL/triple-play, Ethernet and other optical applications; transflective screen for optimal viewing; easy data transfer via USB connection.	
FIP support	Ensures that you perform a connection with clean connectors/adapters, exempt from any defect.	
Step-by-step fiber loss wizard	Guides the user through quick procedures, limiting testing time and operator errors.	
User-friendliness	Displays straightforward, automated test results with user-definable pass/fail criteria, without requiring interpretation; possibility to interchange connectors for perfect referencing setup.	
Low cost of ownership	Allows you to bid on more contracts, thanks to this dedicated fiber tester that certifies singlemode and multimode fiber networks; offers a three-year warranty and recommended calibration interval; is less expensive than major competitors' instruments.	

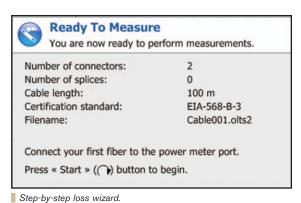
FLS-600 key features and benefits		
Automatic wavelength switching Offers automated toggling between wavelengths thanks to the Auto-Swit feature enables the AXS-200/360 to recognize the wavelength in use an proper calibration parameters.		
Distant referencing	Sends a signal remotely, giving the power meter information on the source wavelength and output power to be used as reference and helping ensure efficient referencing—even when the source and power meter are far apart.	
Controlled multimode	Designed to provide reliable loss measurements.	

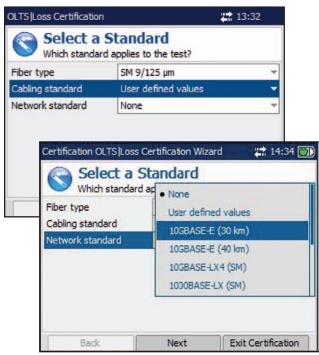


Fiber Testing Made Easy

Network certification in four easy steps

- Select a standard or an application
- Pollow the step-by-step fiber loss wizard
- 3 Set reference
- 4 Start the test





Select a standard or an application.

The AXS-200/360 automatically completes loss measurements at 850 and 1300 nm (MM) or 1310 and 1550 nm (SM), compares results against industry standards such as TIA-568-B and provides pass/fail analysis in compliance with those standards.

Retest fibers as needed

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

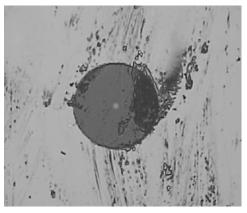


View all results at a glance

Once the cable is completely tested, the AXS-200/360 displays a table of all measurement values along with pass/fail status, based on user-inputted fiber lengths.

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 from any defect is where accurate testing starts.

Avoid failing certification testing thanks to the FIP port on the AXS-200/360. Just plug EXFO's efficiently designed FIP-400 Fiber Inspection Probe and benefit from an unmatched optical resolution. Moreover, keep snapshots of your connectors for future reference







Dirty connector.

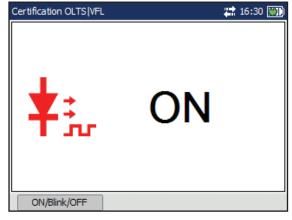
Clean connector.

AXS-200/360 with FIP-400.

and documentation.

Facilitating troubleshooting

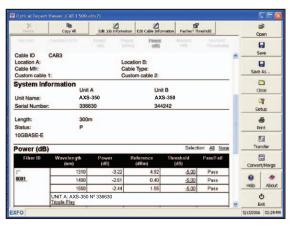
Troubleshoot link problems such as bad splices, macrobendings and fiber breaks using EXFO's visual fault locator. The VFL's bright red light helps you visually locate many near-end fiber faults and tests polarity. With this valuable and cost-efficient option, you will benefit from another opportunity 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-200/360 SPECIFICATIONS a

Power Meter ^b	AXS-200/362
Detector	Ge
Power range (dBm) ^c	10 to -75
Wavelength range (nm)	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
Power uncertainty d	±5 % ± 31 pW
Resolution (dB)	±0.01 (10 dBm to -60 dBm)
Automatic offset nulling e	Yes
Display units	dB, dBm, W
Tone detection	270 Hz, 1 kHz and 2 kHz
Auto-switching ^f	Yes
Warm-up period (min) ^e	0
Data storage (items)	More than 10 000
Battery life (hours) (typical)	8
Recommended calibration interval (years)	3

GENERAL SPECIFICATIONS

Module and platform size (H x W x D)	284 mm x 125 mm x 82 mm	(11 ³/16 in x 4 ¹⁵ /16 in x 3 ¹/4 in)	
Module and platform weight (with battery)	1.45 kg	(3.2 lb)	
Temperature			
operating	−10 °C to 50 °C	(14 °F to 122 °F)	
storage	-40 °C to 70 °C	(-40 °F to 158 °F)	
Humidity	5 % to 95 % relative, non-condensing		
Power supply input	100 V to 240 V to AC at 1.8 A, 50 Hz to 60 Hz		
Power supply output	18 V to 24 V DC at 3.3 A to 2.50 A, 60 W		
Battery	Internal rechargeable Li-lon battery, with battery state indication		
Self-test	Routine on power-up		
Results storage	128 MB		
Languages	English, French, German, Spanish, Chinese (Simplified and Traditional), Russian, Korean		
Warranty (years)	3		

STANDARD ACCESSORIES

CD-based user guide, Certificate of Calibration, quick reference guide, AC adapter/charger, connector adapter (FOA-XX), lithium ion battery, shoulder strap, carrying case, USB cable, reporting software

VFL

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

SAFETY

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

**! VFL option is available



FLS-600 SPECIFICATIONS h

Model		12D	23BL	234BL	235BL
Central wavelength (nm))	850 ± 25	1310 ± 20	1310 ± 20	1310 ± 20
		1300 +50/-10	1550 ± 20	1550 ± 20	1490 ± 10
				1625 ± 15	1550 ± 20
Spectral width (nm) i		50/135	≤ 5	≤ 5	≤ 5
Output power (dBm)		≥ -20/≥ -20 (62.5/125 µm)	≥ 1/≥ 1	≥ 1/≥ -3/≥ -5	≥ 1/≥ -4.5/≥ -3
Power stability (dB) j	15 min	±0.05	±0.03	±0.03	±0.03
	8 h	±0.1	±0.1	±0.1	±0.1
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) (typic	cal in Auto mode)	50	50	50	50
Warranty		3	3	3	3

SAFETY

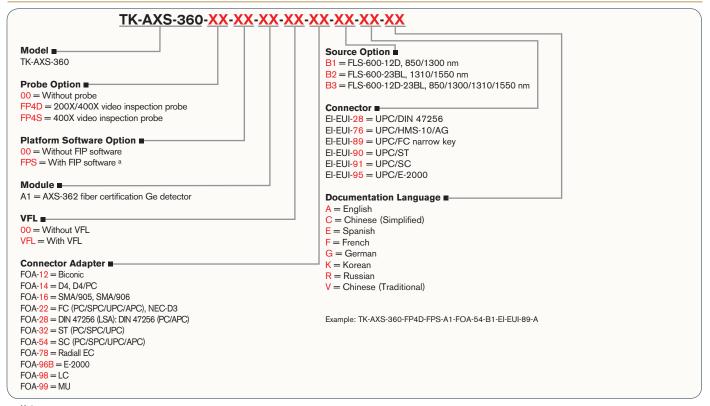
21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001: CLASS 3R LASER PRODUCT FOR VFL



NOTES

- a. At 23 °C \pm 1 °C, with an FC connector.
- b. At 1550 nm, unless otherwise specified.
- c. Sensitivity defined as 6 x rms noise level.
- d. For calibrated wavelengths. Valid up to 5 dBm for AXS-200/362.
- e. For a variation of ± 0.05 dB from 18 °C to 28 °C, for power > -50 dBm.
- f. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1650 nm; for power > -50 dBm.
- g. Typical values in 62.5/125 μm fiber.
- h. Guaranteed unless otherwise specified. All specifications valid at 23 °C \pm 1 °C, with an FC connector.
- i. rms for FP lasers; and -3 dB width for LEDs (typical values for LEDs).
- j. After a 15-minute warm-up period, and using an APC connector on the power meter (except for multimode sources, for which a PC connector is used). Expressed as ± half the difference between the maximum and minimum values measured during the period.

ORDERING INFORMATION



a. Mandatory with FP4D or FP4S.

EXFO Corporate Headquarters > 400 Godin Avenue, Quebec City (Quebec) G1M 2K2 CANADA | Tel.: +1 418 683-0211 | Fax: +1 418 683-2170 | info@EXFO.com

			Toll-free: +1 800 663-3936 (U	SA and Canada) www.EXFO.com
EXFO America	3701 Plano Parkway, Suite 160	Plano, TX 75075 USA	Tel.: +1 800 663-3936	Fax: +1 972 836-0164
EXFO Asia	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	Tower C, Beijing Global Trade Center, Room 1207 36 North Third Ring Road East, Dongcheng District	Beijing 100013 P. R. CHINA	Tel.: + 86 10 5825 7755	Fax: +86 10 5825 7722
EXFO Europe	Omega Enterprise Park, Electron Way	Chandlers Ford, Hampshire S053 4SE ENGLAND	Tel.: +44 2380 246810	Fax: +44 2380 246801
EXFO Service Assurance	285 Mill Road	Chelmsford, MA 01824 USA	Tel.: +1 978 367-5600	Fax: +1 978 367-5700

EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

For the most recent version of this spec sheet, please go to the EXFO website at http://www.EXFO.com/specs

In case of discrepancy, the Web version takes precedence over any printed literature.







РУЧНАЯ МОДУЛЬНАЯ ПЛАТФОРМА

AXS-200 линия продуктов для сетей доступа - SharpTESTER ТЕСТИРОВАНИЕ СЕТЕЙ ДОСТУПА



Новый авторитет в тестировании сетей доступа: создан для многоуровневого тестирования в оптических и медных линиях доступа

Простота и Эффективность

- Запуска и остановка теста одним нажатием
- Eдиный пользовательский интерфейс для всей серии модулей SharpTESTER
- Гибкая архитектура, позволяющая адаптироваться к постоянно изменяющимся требованиям пользователей
- Прочное всепогодное исполнение
- Легок в использовании даже для неопытных пользователей или незнакомых с конкретными применениями специалистов
- Быстрое и однозначное заключение по выполненному тесту по критерию «годен/негоден» предлагается пользователю на цветном графическом трансфлективном экране

Решение, позволяющее работать на множестве уровней и в различных средах — Серия из трех модулей

Тестирование медных линий/DSL/Сервисов «три-в-одном»

- Полная проверка абонентского кабеля
- Проверка качества сервисов (QoS), поставляемых с помощью xDSL
- Тестирование Ethernet для проверки сервисов

Тестирование оптических линий

Тестирование физического уровня волоконной линии доступа

Тестирование Ethernet

 Тестирование Ethernet линий при их инсталляции или в процессе. обслуживания

Гибкость в подключении

- Легкая передача данных и обновление программного обеспечения с помощью USB подключения
- USB A/B и RJ-45
- Порт для подключения видеомикроскопа



	ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ		
	Экран	89 мм (3.5 in) LCD, 320 x 240, QVGA, TFT	
Интерфейсы USB хост/клиент, RJ-45 Ethernet 10/100, порт видеомикроскопа Память Внутренняя: 512 МБ; USB: 1 ГБ, 2 ГБ и больше		USB хост/клиент, RJ-45 Ethernet 10/100, порт видеомикроскопа	
		Внутренняя: 512 МБ; USB: 1 ГБ, 2 ГБ и больше	
Аккумулятор Перезаряжаемый Li-lon аккумулятор		Перезаряжаемый Li-Ion аккумулятор	
Источник питания 15–24 В, пост тока, 40 Вт минимум		15-24 В, пост тока, 40 Вт минимум	

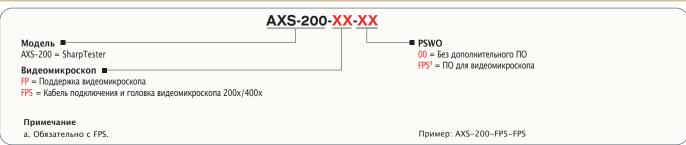
ОБЩИЕ ХАРАКТЕРИСТИКИ				
Температура				
Работы	от - 10 ℃ до 50 ℃	(от 14 °F до 122 °F)		
хранения ^а	от - 40 ℃ до 70 ℃	(от -40 °F до 158 °F)		
Размер (В х Ш х Г)	241.3 мм х 109.2 мм х 38.1 мм	(9 1/2 in x 4 5/16 in x 1 1/2 in)		
Bec	0.468 кг	(1.02 lb)		
Относительная влажность	от 0 % до 93 % без конденсата			
Гарантия	1 год			

Примечание

а. Максимальная температура для внутреннего аккумулятора 60 °С (140 °F).

АКССЕССУАРЫ	
GP-10-061	Мягкая сумка
GP-10-072	Полужесткая сумка для переноски
GP-10-074	Жесткий кейс AXS-200
GP-2016	Кабель RJ-45 LAN (10 фт)
GP-2019	USB микродиск (1 ГБ)

ИНФОРМАЦИЯ ДЛЯ ЗАКАЗА



Центральный офис EXFO > 400 Godin Avenue, Quebec City (Quebec) G1M 2K2 CANADA | Тел.: 1 418 683-0211 | Факс: 1 418 683-2170 | info@EXFO.com

			Бесплатный те	л.: 1 800 663-3936 (США и Канада) www.EXFO.com
EXFO Америка	3701 Plano Parkway, Suite 160	Plano, TX 75075 USA	Тел.: 1 800 663-3936	Факс: 1 972 836-0164
EXFO Европа	Omega Enterprise Park, Electron Way	Chandlers Ford, Hampshire S053 4SE ENGLAND	Тел.: +44 2380 246810	Факс: +44 2380 246801
EXFO Азия	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Тел.: +65 6333 8241	Факс: +65 6333 8242
EXFO Китай	No.88 Fuhua, First Road, Central Tower, Room 801 Futian District	Shenzhen 518048, CHINA	Тел.: +86 (755) 8203 2300	Факс: +86 (755) 8203 2306
	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. CHINA	Тел.: +86 (10) 6849 2738	Факс: +86 (10) 6849 2662

Компания ЕХFО сертифицирована по стандарту ISO 9001 и, соответственно, аттестует качество своих продуктов. Данный прибор согласуется с частью 15 правил FCC. Работа с прибором подчиняется следующим двум условиям: (1) данное изделие не может вызывать вредных помех и (2) данное изделие может принимать любую помеху, включая помеху, которая может оказать нежелательное воздействие на работу. Компания ЕХFО предприняла все меры, для того, чтобы удостоверится, что информация, содержащаяся в данной спецификации, является точной. Вся выпускаемая компанией ЕХFО продукция соответствует директиве WEEE Европейского Союза. За дополнительной информацией обратитесь по адресу www.EXFO.com/recycle. Однако, мы не несем ответственности за любые ошибки или недочеты, и мы оставляем за собой право на изменения дизайна, характеристик и продуктов в любое время без каких-либо обязательств. Единицы измерения в этом документе соответствуют стандартам SI и общепринятой практике. Свяжитесь с ЕХFО для получения информации о ценах и наличии продуктов или для получения телефонного номера дистрибьюгого в вашем рестионе.

За наиболее свежей версией данной спецификации, пожалуйста, посетите сайт компании EXFO по адресу http://www.EXFO.com/specs

В случае разногласий, версия, опубликованная на сайте, имеет преимущество перед любой печатной литературой.





