FOT-300 NETWORK TESTING-OPTICAL



- Highly optimized OLTS integrating a power meter port and up to three singlemode sources or two multimode sources on a single port
- Power autonomy of 260 hours
- Three-year warranty and recommended calibration interval, for dramatically reduced cost of ownership
- Ergonomic, eye-catching handheld package

Auto-Wavelength Recognition

The FOT-300's built-in source can transmit with a wavelength-identification digital encrypted protocol, so that any compatible unit—the FPM-300 Power Meter and the FOT-300's receiver—can automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

Distant Referencing

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

No offset nulling

Thanks to its unique design, the FOT-300 Optical Loss Test Set reduces measurement time in typical measurement situations, as the need for an offset nulling is eliminated.

FTTx Ready

EXFO's FLS-300 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.





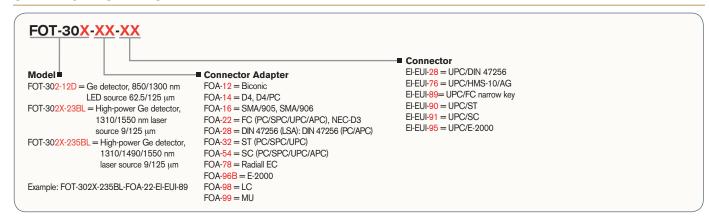


SPECIFICATIONS a			GENERAL S	SPECIFICATION	NS			
Model	FOT-302	FOT-302X	Size (H x W x D)	185 mm x 100	mm x 55 mm	(71/4 in x 4 in x 21/8 in)		
Power meter port b	Ge	GeX	Weight	0.4 kg		(0.9 lb)		
Power range (dBm) ^c	10 to -60	26 to -50	Temperature ope	erating -10 °C to 50 °C	С	(14 °F to 122 °F)		
Range displayed (dBm)	Down to −65	Down to −50	sto	rage -40 °C to 70 °C	С	(-40 °F to 158 °F)		
Number of calibrated wavelengths d	10	10	Relative humidity 0 % to 95 % non-condensing					
Power uncertainty e	± 5 % ± 1 nW	± 5 % ± 10 nW						
Resolution (dB)	0.01 ^f	0.019	STANDARD ACCESSORIES					
Automatic offset nulling h	Yes	Yes	User guide, Certificate of Calibration, instrument stickers in six languages,					
Warmup time (s) h, i	0	0	AC adapter, EUI-XX, connector adapter (FOA-XX), three AA batteries, wrist					
Display units	dB/dBm/W	dB/dBm/W	strap, alcohol cleaning pads.					
Automatic wavelength recognition j	Yes	Yes						
Screen refresh rate (Hz)	3	3	SAFETY					
Tone detection (Hz)	270, 1 k, 2 k	270, 1 k, 2 k	21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001:					
Battery life (hours) (typical)	260	260	CLASS 1 LASER PRODUCT CLASS 1 LED PRODUCT					
Warranty and recommended calibration interval (years)	3	3						
Model k	23BL	12D	235BL					
Central wavelength (nm)	1310 ± 20	850 ± 25/	1310 ± 20					
•	1550 ± 20	1300 + 50/-10	1490 ± 10)				
			1550 ± 20)				
Spectral width (nm)	≤ 5	50/135	≤ 5					
Output power (dBm)	≥ 1/≥ 1	≥ -20/≥ -20 (62.5/12	5 μm) ≥ 1/≥ -4.5/	≥ -3				
Power stability (dB) ^m								
8 hours	± 0.1	± 0.1	± 0.1					
Battery life (hours) n	120	120	120					
Automatic wavelength recognition	Yes	Yes	Yes					
Tone generation (Hz)	270, 1 k, 2 k	270, 1 k, 2 k	270, 1 k, 2	k				
Warranty and recommended calibration interval (years)	3	3	3					

NOTES

- a. Guaranteed unless otherwise specified.
- b. All specifications valid at 1550 nm and 23 °C \pm 1 °C, with an FC connector.
- c. In CW mode; sensitivity defined as 6 x rms noise level.
- d. Wavelengths: 830 nm, 850 nm, 980 nm, 1300 nm, 1310 nm, 1450 nm, 1490 nm, 1550 nm, 1590 nm and 1625 nm.
- e. Traceable to national standards; FOT-302X: up to 20 dBm.
- f. From 10 dBm to -50 dBm.
- g. From 26 dBm to -35 dBm.
- Power of > -40 dBm for FOT-302, and of > -25 dBm for FOT-302X.
- i. For \pm 0.05 dB, from 18 °C to 28 °C.
- j. At 850 nm, 1300 nm, 1310 nm, 1490 nm, 1550 nm and 1625 nm; power > -50 dBm for FOT-302, and > -40 dBm (typical) for FOT-302X.
- All specifications valid at 23 °C ± 1 °C, with an FC connector
- rms for lasers and -3 dB width for LEDs; typical values for LEDs.
- Mfter 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.
- n. Typical autonomy in Auto mode.

ORDERING INFORMATION



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 (US	Toll-free: +1 800 663-3936 (USA 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	100 Beach Road, #22-01/03 Shaw Tower	SINGAPORE 189702	Tel.: +65 6333 8241	Fax: +65 6333 8242	
EXFO China	36 North, 3rd Ring Road East, Dongcheng District Room 1207, Tower C, Global Trade Center	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 NetHawk	Elektroniikkatie 2	FI-90590 Oulu, FINLAND	Tel.: +358 (0)403 010 300	Fax: +358 (0)8 564 5203	
EXFO Service Assurance	270 Billerica 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.

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





