

# Handheld Power Meters

FOT-10A and FOT-20A



Designed to withstand the rigors of field testing

Five calibrated wavelengths

Auto-off function

Compatible with singlemode and multimode fibers



Fiber-optic T&M,  
monitoring, manufacturing  
and assembly solutions

# Versatility in the Field

The FOT-10A and FOT-20A Power Meters are compact, accurate, rugged and easy-to-use instruments for both power and loss testing. Like all of EXFO's handheld power meters, the FOT-10A and FOT-20A can be calibrated to a custom wavelength, free of charge.

## Key Features

- Direct loss measurement in dB
- Five electronically calibrated wavelengths
- Shockproof holster also acts as storage compartment for fiber-optic adapters and replacement battery
- Auto-off function
- FOT-10A: power measurements in dBm
- FOT-20A: power measurements in dB, dBm and W

## Performance

The FOT-10A and FOT-20A incorporate EXFO's linear amplification technology and are traceable to NIST. They offer five calibrated wavelengths, and perform 2 kHz signal detection for fiber identification. Unit configurations are available with germanium or high-power germanium detectors. An electrical offset nulling feature makes the FOT-10A and FOT-20A ideal for operation in extreme temperature conditions.



FOT-10A



FOT-20A

## Ruggedness

The FOT-10A and FOT-20A Power Meters meet Telcordia's strict drop-test requirements. A holster is included for added durability and portability of connector and battery accessories. A complete range of EXFO fiber-optic adapters is available for connector interface. A single 9 V battery powers these units for over 14 hours.

### Custom Calibration

Like all EXFO power meters, the FOT-10A and FOT-20A can be calibrated at a custom wavelength.

### Applications

- Transmitter power measurements (dBm and W)
- Fiber-link loss testing (dB)
- Component insertion-loss testing (dB)
- Fiber identification with 2 kHz signals
- LAN installation and maintenance applications

### Accessories

- Battery
- AC adapter/charger
- Rigid carrying case
- Shockproof holster

## Specifications

Models	FOT-12A	FOT-12AX	FOT-22A	FOT-22AX
Detector type	Ge (2 mm)	GeX (2 mm)	Ge (2 mm)	GeX (2 mm)
Standard calibrated wavelengths (nm)	780, 850, 1300, 1310, 1550	780, 850, 1300, 1310, 1550	780, 850, 1300, 1310, 1550	780, 850, 1300, 1310, 1550
Measurement range <sup>1</sup> (dBm)	6 to -60	21 to -50	6 to -60	21 to -50
Resolution <sup>3</sup> (dB)	0.05	0.05	0.05	0.05
Uncertainty <sup>2,3</sup> (%)	± 5	± 5	± 5	± 5

### General Specifications

Size (H × W × D)	22.2 cm × 10.3 cm × 5.9 cm	(8 3/4 in × 4 1/16 in × 2 1/4 in)
Weight		
unit	0.56 kg	(1.25 lb)
shipping	1.8 kg	(4 lb)
Temperature		
operating	-10 °C to 40 °C	(14 °F to 104 °F)

### Standard Accessories

User Guide, carrying case, 9 V alkaline battery, AC adapter, connector adapter, protective holster, shoulder strap and Certificate of Calibration.

### Notes

1. Measured at 1300 nm.
2. Traceable to NIST.
3. Resolution and uncertainty are functions of detected power levels. Values supplied are for a -35 dBm power level.

## Power Meter FOT-1XA-XX

### Model

FOT-12A = Ge  
FOT-12AX = High-Power Ge

Example: FOT-12AX-FOA-22

## Power Meter FOT-2XA-XX

### Model

FOT-22A = Ge  
FOT-22AX = High-Power Ge

Example: FOT-22AX-FOA-22

Specify the model number and the connector adapter you wish to obtain (one free connector adapter included):

### Connector Adapter

- FOA-12 = Biconic
- FOA-14 = D4: D4,D4/PC
- FOA-16 = SMA/905, SMA/906
- FOA-22 = FC: FC (PC/SPC/UPC/APC), NEC-D3
- FOA-24 = Radial VFO/DF (straight/slant)
- FOA-28 = DIN 47256 (LSA): DIN 47256 (PC/APC)
- FOA-32 = ST: ST (PC/SPC/UPC)
- FOA-34 = Mini-BNC
- FOA-40 = Diamond HMS-0HFS-3 (3.5 mm)
- FOA-42 = Radial PFO
- FOA-44 = Radial MFO
- FOA-48 = HP HFBR-4501-HFBR-4503
- FOA-52 = Biconic Bayonet
- FOA-54 = SC: SC (PC/SPC/UPC/APC)
- FOA-68 = AT&T Rotary Splice
- FOA-76 = FSMA HMS-10/AG, HFS-10/AG
- FOA-78 = Radial EC
- FOA-84 = Diamond HMS-10, HFS-13
- FOA-96B = E-2000
- FOA-97 = LX.5
- FOA-98 = LC
- FOA-99 = MU

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our Web site at [www.exfo.com](http://www.exfo.com)



### Rugged Handheld Solutions

- OLTS
- Power Meter
- Light Source
- Talk Set



### UNIVERSAL TEST SYSTEM

- OTDR
- OLTS
- ORL
- Switch

### Optical Fiber

- OSA
- PMD
- Chromatic Dispersion Analyzer
- Multiwavelength Meter

### DWDM Test Systems

### Protocol

- 10/100 and Gigabit Ethernet
- SONET/SDH (DS0 to OC-192c)
- SDH/PDH (64 wKb/s to STM-64c)

CORPORATE HEADQUARTERS	400 Godin Avenue	Vanier (Quebec) G1M 2K2 CANADA	Tel.: 1 418 683-0211 · Fax: 1 418 683-2170
EXFO AMERICA	4275 Kellway Circle, Suite 122	Addison TX 75001 USA	Tel.: 1 800 663-3936 · Fax: 1 972 836-0164
EXFO EUROPE	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85 · Fax: +33.1.40.83.04.42
EXFO ASIA-PACIFIC	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241 · Fax: +65 6333 8242
EXFO CHINA	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. China	Tel.: +86 (10) 6849 2738 · Fax: +86 (10) 6849 2662

TOLL-FREE (USA and Canada)

Tel.: 1 800 663-3936

[www.exfo.com](http://www.exfo.com) • [info@exfo.com](mailto:info@exfo.com)

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.

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/support/techdocs.asp>

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

All names, trademarks, products and services mentioned are registered or unregistered trademarks of their respective owners.

