

# 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.

## Ordering Information

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### 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 = Radiall 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 = Radiall PFO
- FOA-44 = Radiall 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 = Radiall 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**

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

**Protocol**

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