PEC SHEET

Optical Power Expert

CONNECTED OPTICAL POWER METER



TestFlow





State-of-the-art power meter with Bluetooth connectivity, a wide touchscreen and best-in-class optical performances. In a pocket-sized form factor. Turns on instantly for use on the go.

KEY FEATURES

Connect to smart app via Bluetooth for data reporting from the field and cloud storage (see page 2 for release dates)

User-friendly: Compact, color touchscreen and intuitive interface

Robust and rugged: IP54 design for dust and water protection

Time-saving features: no offset nulling, lightning-fast boot-up

Visual fault locator (on PRO)

Local data storage of 1000 test results

Error-free, automated wavelength recognition and switching (on PRO)

3-year warranty and calibration interval

APPLICATIONS

Measuring optical power (dBm) and insertion loss (dB)

Fiber tracing

All telecom networks including:

- > Passive optical networks (PON)
- > 5G rollouts
- > FTT>
- > LAN/WAN access and enterprise
- **)** ΓΔΤ\/
- > Military applications

Applicative bundles of wavelengths for PON (GPON, XGS-PON, NG-PON2, RFoG, etc.), CWDM and DWDM ITU channels

RELATED PRODUCTS



Light source FLS-600



Fiber inspection probe FIP-400B wireless



OPTICAL POWER EXPERT

The Optical Power Expert is an essential device in today's field toolkit to measure the optical signal power (dBm) or link loss (dB). With the Optical Power Expert, save field test results on the device and share reports through your smartphone a. Leverage the TestFlow mobile app to simplify your workflow and test results management, while also receiving field updates that enable new features. The Optical Power Expert enables technicians to close more jobs, better and more efficiently through industry-leading features such as bundled wavelengths or instant boot up for use on the go. The device comes with built-in expertise with automation that avoids human error (smart features such as auto-wavelength recognition and switching).

The power meter comes with best-in-class performances, a wide color touchscreen and an intuitive graphical interface. Pocket-sized and rugged, the device is designed for extensive use in the field. It has a high capacity data storage for test results.



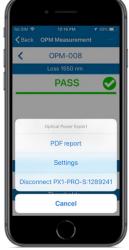
The compact Optical Power Expert fits neatly into your pocket.

GO BEYOND WITH THE CLOUD

Pair the device with the TestFlow mobile app and leverage your smart device for:

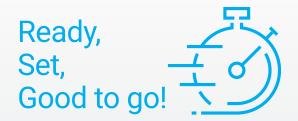
- Occasional PDF reporting from the field to share on the go via email, text message or your favorite messaging app
- > Cloud storage and full job documentation (Available in fall 2021)





FOR USE ON THE GO

Lightning-fast boot-up, intuitive graphical user interface (GUI), no offset nulling or warm-up required. The Optical Power Expert boots up and is ready for use when you need it.

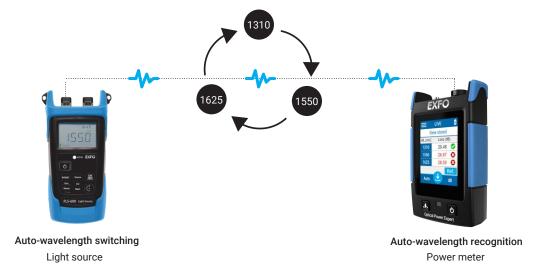


Lightning-fast boot-up No nulling No warm-up Intuitive GUI



AUTOMATED TESTING = ERROR-FREE TESTING

When used in combination with an EXFO light source^a in auto-switching mode, the power meter automatically recognizes the wavelength in use and switches to the proper calibration parameter. At the press of a button, you can store results for all wavelengths at once.



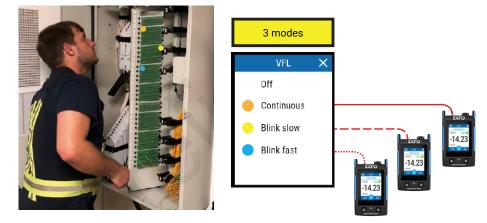
FIBER TRACING

When it comes to fiber tracing, the Optical Power Expert can detect four different tones emitted from a source^a: 270 Hz, 330 Hz, 1 kHz and 2 kHz.





The PRO configuration includes a visual fault locator that emits light in three different modes (continuous, slow blink and fast blink) to trace fibers and identify breaks and macrobends.



EVOLUTIVE SOLUTION

To increase field efficiency and adapt to new challenges as they arise, this solution is designed to evolve, and system releases will be made on a regular basis. These releases will upgrade the feature set of the Optical Power Expert, the mobile app and relevant cloud-based services.





LOW COST OF OWNERSHIP

Designed for extended use in the field, the Optical Power Expert delivers best-in-class optical performances day in, day out. EXFO's track-record of robustness, backed with IP54 design for water and dust protection, makes this device extremely reliable and a long-lasting investment.



CONFIGURATIONS AVAILABLE

The Optical Power Expert is available in two configurations: PX1 and PX1-PRO.

Both the PX1 and PX1-PRO are available with either standard detector (10 to -70 dBm) or high-power detector (26 to -50 dBm).



SPECIFICATIONS a

CONFIGURATIONS	PX1	PX1-PRO
Power measurement range (dBm) Standard High power	10 to −70 26 to −50 ^b	
Power uncertainty	±5 % °	
Measurement units available	dB, dBm, Watt (W, mW, nW, pW)	
Wavelength measurement range (nm)	830 to 1625	780 to 1650
Calibrated wavelengths (nm)	11 calibrated wavelengths: 830, 850, 980, 1300, 1310, 1450, 1490, 1550, 1577,1590, 1625	45 calibrated wavelengths: 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, 1577, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650
Auto-wavelength recognition	No	Yes ^d
Auto-wavelength switching	No	Yes °
Wavelength bundles	No	Yes
Visual fault locator	No	Yes (3 modes-continuous, 1 Hz, 4 Hz)
Tone detection	270 Hz, 330 Hz, 1 kHz, 2 kHz	

GENERAL SPE	CIFICATIONS		
Dimension		133 mm x 78 mm x 30 mm (5 1/4 in x 3 in x 1 1/8 in)	
Display size		2.8 in	
Weight (with bat	tery)	225 g (0.5 lb)	
Display type		Color display with capacitive touchscreen	
Battery charging		< 3 hours charging time, when unit is off USB Type C charging port connector AC/DC charger/adapter input: \sim 100 – 240 V; 50/60 Hz; 1.0 A max, output: \Longrightarrow 5 V; 2 A	
Battery autonomy	у	8 h (continuous use)	
Interfaces		Bluetooth 5.0 with BLE	
Storage capacity	1	1000 test results for local reading	
Reporting		Single test: PDF on TestFlow mobile app Batch of tests: online (TestFlow account required) Summer 2020 for single test, fall 2021 for batch report	
Warranty		3 years	
Calibration interv	<i>r</i> al	3 years	
Temperature	Storage ^f Operating	–40 °C to 70 °C (–40 °F to 158 °F) –10 °C to 50 °C (14 °F to 122 °F)	

VISUAL FAULT LOCATOR (VFL) (PX1-PRO ONLY)

Laser, 650 nm \pm 10 nm

CW/Modulate 1 Hz/Modulate 4 Hz

Typical P_{out} in 62.5/125 μ m: > -1.5 dBm (0.7 mW)

Laser safety: Class 2



- a. Specifications valid at (23 \pm 1 °C), 1550 nm, with an FOAS-22 adapter and FC/UPC connector.
- b. Typica
- c. Singlemode fiber or a 50 µm fiber. Bluetooth ON. Charge OFF. Brightness at 75 %. Between 17 dBm to -35 dBm for high-power model. Between 5 dBm to -50 dBm for standard model.
- d. Auto-wavelength recognition with FLS-300, FLS-600, FOT-300, FOT-600
- e. Auto-wavelength switching with FLS-600, FOT-600
- f. Without battery.























GP-2269 FOAS-22 FOAS-32





FOAS-U12 FOAS-U25 GP-1008

ACCESSORIES	
Carrying pouches	
GP-2267	Soft pouch carrying case
Wrist strap	
GP-3157	Wrist strap
Power adapters	
GP-2227	USB AC adapter (includes interchangeable plugs for North America, Europe, UK and Australia)
GP-2269	USB-A to USB-C cable (for charging purposes only-no data transfer)
Battery	
GP-2225	Rechargeable battery
Connectors adapters	
FOAS-22	FC connector adapter
FOAS-32	ST connector adapter
FOAS-54	SC connector adapter
FOAS-98	LC connector adapter
FOAS-U12	Universal 1.25 mm connector adapter (suitable for 1.25 mm ferrule connectors including LC, MU)
FOAS-U25	Universal 2.5 mm connector adapter (suitable for 2.5 mm ferrule connectors including SC, FC, ST, E2000)
GP-1008	VFL adapter for 1.25 mm ferrule



WHAT'S IN THE BOX?

Included accessories—PX1

- > Calibration certificate
- > GP-3157-Wrist strap
- > GP-2225-Rechargeable battery
- > FOAS-U25-Universal 2.5 mm connector adapter a
- > GP-2269-USB cable (compatible with any AC USB charger)

GP-2269

FOAS-U25



PX1

Included accessories—PX1-PR0

- > Calibration certificate
- > GP-3157-Wrist strap
- > GP-2225-Rechargeable battery
- > FOAS-U25-Universal 2.5 mm connector adapter a
- > GP-2269-USB cable (comaptible with any AC USB charger)
- > GP-2227-USB AC adpater
- > GP-2267-Soft carrying pouch

PX1-PR0



a. Universal 2.5 mm connector adapter included by default unless otherwise specified upon ordering

ORDERING INFORMATION PX1-XX-XX Model ■ Optical Power Expert Configurations ■ S = Standard power measurement range H = High power measurement range S-PRO = Pro configuration with standard power measurement range H-PRO = Pro configuration with high power measurement range Connector adapter ■ FOAS-22 = FC connector adapter FOAS-32 = ST connector adapter FOAS-54 = SC connector adapter FOAS-98 = LC connector adapter FOAS-U12 = Universal 1.25 mm connector adapter FOAS-U25 = Universal 2.5 mm connector adapter

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | www.EXFO.com

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to www.EXFO.com/contact.

EXFO is certified ISO 9001 and attests to the quality of these products. 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 www.EXFO.com/specs.

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

Android is a trademark of Google Inc.

Example: PX1-S-FOAS-22

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.

iOS is a registered trademark of Cisco System, Inc. and/or its affiliates in the U.S. and certain other countries.

