

# PPM1

## SERVICE ACTIVATION PON POWER METER

- Versatile dual-layer tester purpose-built for service activation of PON, with added broadband capabilities.



### KEY FEATURES AND BENEFITS

Unique PON-aware™ capability: helps to select the appropriate PON technology under test

Supports 1G/10G PON networks: G/EPON and XGS-PON/10G-EPON

No training required: color touchscreen with a highly intuitive GUI

Robust and rugged: IP54 design for dust and water protection

3-year warranty and calibration interval

Visual fault locator (PRO model)

Broadband power meter mode (PRO model)

### APPLICATIONS

Multilayer FTTH PON downstream service activation

GPON, EPON, XGS-PON, 10G-EPON, RF video and RFoG service activation

Network troubleshooting

Insertion loss measurement

Fiber tracing

### RELATED PRODUCTS AND ACCESSORIES



Fiber inspection scope  
FIP-500



FTTH residential services tester  
EX10



FTTH and business services tester  
EX1



PON power meter  
PPM-350D



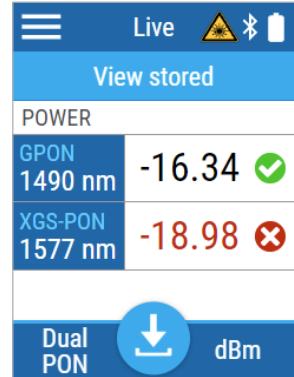
Cleaning kits

### NEXT-GENERATION PON SERVICE ACTIVATION

Next-generation passive optical networks (PONs) will, in most cases, leverage existing outdoor plant infrastructure already in use for PON customers. Adding new services on existing networks translates into overlaying multiple wavelengths on the same physical fiber plant.

### A SINGLE POWER METER FOR 1G AND 10G NETWORKS

EXFO's PPM1 is compatible with multiple services including GPON, EPON, XGS-PON and 10G-EPON technologies. Its PON-layer wavelength-selective design allows it to measure up to two downstream signals simultaneously, assessing power level for rapid and reliable service activation.



### PON-AWARE TECHNOLOGY

By leveraging customizable or preset PON layer configurations, the PPM1 notifies the user and recommends the available PON layer for the network under test for proper pass/fail assessment, enabling error-free testing.

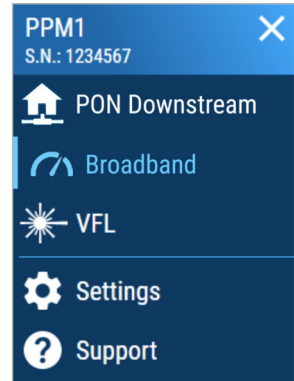
### PRO MODEL: ALL-IN-ONE VERSATILE POWER METER

#### Mode for broadband

On top of the PON mode, the PPM1 PRO features a Broadband Power Meter mode calibrated at five wavelengths with the following capabilities when used in combination with an EXFO light source: auto-wavelength detection and switching, modulated tone detection, power and loss measurement.

#### Visual fault locator (VFL)

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



### LOW COST OF OWNERSHIP

Designed for extended use in the field, the PPM1 delivers best-in-class optical performances—day in, day out. Backed by EXFO's track record of device robustness and its IP54 design for water and dust protection, this tester is an extremely reliable and long-lasting investment.



**Long-lasting LiPo rechargeable and field-replaceable battery**



**Designed for field use**



**EXFO's proven robustness**





**3-year calibration**  
Cut costs related to factory returns and downtime



**IP54 design**  
Water and dust protection

### PPM1

Simultaneous measurement of up to two downstream signals

PON technologies supported: GPON, EPON, XG(S)-PON, RF video overlay, RFoG, downstream measurement

Pass/fail status

3 calibrated wavelengths



### PPM1-PRO

In addition to PPM1 capabilities, the PRO model features:

Auto-wavelength recognition and switching

Tone detection

Broadband power meter

VFL (3 modes: continuous, slow blink, fast blink)

5 calibrated wavelengths

## EXPERIENCE THE INTUITIVE INTERFACE ON YOUR OWN

**PON Power Meter Virtual tour**

START >

The image shows a virtual tour interface for the EXFO PPM1 PON Power Meter. On the left, there is a QR code and a "START >" button. On the right, there is a smaller image of the PPM1 device. The text "PPM1 PON Power Meter" is visible below the device image.

## SPECIFICATIONS

FTTX (PON MODE)		
	PPM1-D	PPM1-PRO-D
Spectral passband (nm)	1490 ±10, 1550 ±10, 1577 ±10	
Calibrated wavelengths (nm)	1490, 1550, 1577	1310, 1490, 1550, 1577, 1625
Power measurement range (dB)	15 to -45	
Power uncertainty <sup>a</sup> (dB)	0.5	
ORL <sup>a</sup> (dB)	55	
Visual fault locator	No	Yes (3 modes—continuous, 1 Hz, 4 Hz)

BROADBAND POWER METER SPECIFICATIONS (PPM1-PRO-D ONLY)	
	PPM1-PRO-D
Wavelength measurement range (nm)	1260 to 1469, 1481 to 1499, 1511 to 1625
Calibrated wavelengths (nm)	1310, 1490, 1550, 1577, 1625
Power measurement range (dB)	15 to -45
Power uncertainty <sup>a,b</sup> (dB)	0.5
Auto-wavelength recognition and switching <sup>c</sup>	Yes
Tone detection <sup>d</sup>	270 Hz, 330 Hz, 1 kHz, 2 kHz

GENERAL SPECIFICATIONS	
Dimension	133 mm x 78 mm x 30 mm (5 ¼ in x 3 in x 1 1/8 in)
Display size	71 mm (2.8 in)
Weight (with battery)	225 g (0.5 lb)
Display type	Color display with capacitive touchscreen
Interface languages	Chinese (Simplified and Traditional), English, French, German, Spanish
Battery charging	< 2h when unit is off USB Type C charging port connector AC/DC charger/adaptor input: 100 - 240 V; 50/60 Hz; 1.0 A max, output: 5 V; 2 A
Battery autonomy	10 h (continuous use at brightness 50%, BLE: ON, AUTO: OFF)
Interfaces	Bluetooth 5.0 with BLE USB Type C
Storage capacity	1000 test results for local reading
Warranty <sup>e</sup>	3 years
Calibration interval	3 years
Temperature	Storage: -40 °C to 70 °C (-40 °F to 158 °F) Operating: -10 °C to 50 °C (14 °F to 122 °F)

VISUAL FAULT LOCATOR (VFL) (PPM1-PRO ONLY)
Laser, 650 nm ± 10 nm
CW/Modulate 1 Hz/Modulate 4 Hz
Typical P <sub>out</sub> in 62.5/125 μm: > -1.5 dBm (0.7 mW)
Laser safety: Class 2



a. Typical, at 23 °C ±3 °C.

b. At calibrated wavelengths.

c. With EXFO light sources.

d. For the range -35 dBm to 10 dBm.

e. Excluding connector wear.



GP-2267



GP-3157



GP-2227



GP-2269

## 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-2295 Rechargeable battery

### Connector adapter

GP-1008 VFL adapter for 1.25 mm ferrule

## ORDERING INFORMATION

PPM1-XX-XX

### Configurations

D= Dual PON layer

PRO-D = Pro configuration with dual PON layer

### Connectors

88 = SC/APC connector

Example: PPM1-PRO-D-88

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