SPEC SHEET

PPM1

SERVICE ACTIVATION PON POWER METER

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

COMPATIBLE WITH EXchange



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 calibration interval
- Visual fault locator (PRO model)
- Broadband power meter mode (PRO model)

APPLICATIONS

- Multilayer FTTx 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



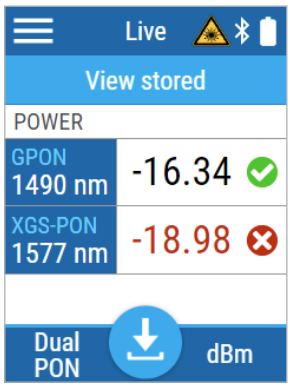
Cleaning kits

MHz MEGA HERTZ

EXFO

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.

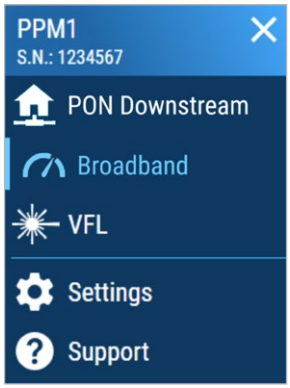


A SINGLE POWER METER FOR 1G AND 10G NETWORKS

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.



IP54 design
Water and dust protection



Long-lasting LiPo rechargeable and field-replaceable battery





EXFO's proven robustness



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

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)

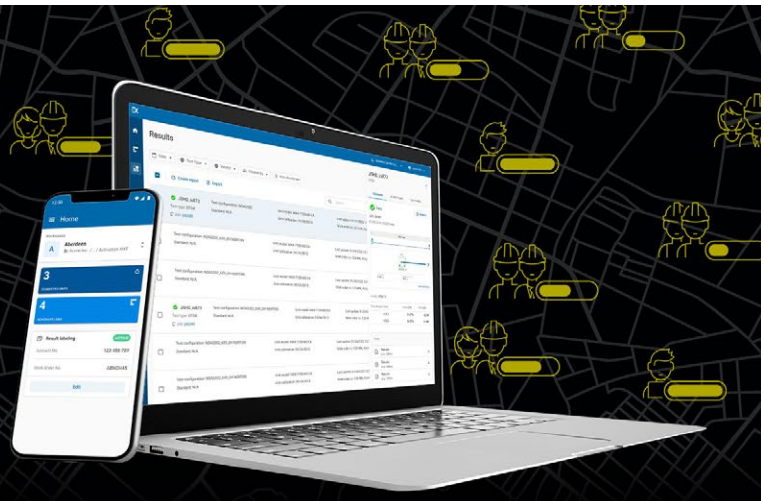
5 calibrated wavelengths

EXPERIENCE THE INTUITIVE INTERFACE ON YOUR OWN



EXchange

SHARE TEST RESULTS. BOOST COMPLIANCE. UNLOCK INSIGHTS.



Cloud-hosted solution for sharing test results and ensuring compliance.

Paired with EXFO's leading test instruments, EXFO Exchange drives an entire ecosystem, while integrating seamlessly with existing operation processes.

KEY BENEFITS

- **Automate test results management**
- **Boost compliance and efficiency**
- **Improve collaboration and visibility**
- **Access comprehensive reporting**
- **Unlock insights to see what matters**

SIMPLE SETUP IN THREE STEPS

1

Create your free EXFO Exchange account

Begin your journey by creating an EXFO Exchange account. Setting up your account is quick and easy.

Create an account

2

Install the mobile app

Download the EXFO Exchange app to allow test data from compatible EXFO devices to be uploaded securely to the cloud (free of charge).

GET IT ON Google Play | Download on the App Store

For MaxTester and FTB users, install the native app.

Access the Native app

3

Save time and boost efficiency

Once your account created—and the mobile app installed and paired with compatible EXFO devices—all test results will be sent to the cloud. On the web app, you will see field test results from all invited testers.

Get **started >**

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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 (dBm)	15 to −45	
Power uncertainty (dB) [a]	0.5	
ORL (dB) [a]	55	
Visual fault locator	No	Yes (3 modes—continuous, 1 Hz, 4 Hz)
Dedicated live tone detection [b]	Yes	Yes

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 (dBm)	15 to −45
Power uncertainty (dB) [a, c]	0.5
Auto-wavelength recognition and switching [d]	Yes
Tone detection [e]	270 Hz, 330 Hz, 1 kHz, 2 kHz

GENERAL SPECIFICATIONS

Dimension	133 mm × 78 mm × 30 mm (5 ¼ in × 3 in × 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, Italian
Battery charging	< 2h when unit is off USB type C charging port connector AC/DC charger/adapter 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 (year) [f]	1
Calibration interval (years)	3
Temperature Storage 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) (PPM1-PRO ONLY)

Laser, 650 nm ± 10 nm
CW/Modulate 1 Hz/Modulate 4 Hz
Typical P_{out} in 62.5/125 µm: > −1.5 dBm (0.7 mW)
Laser safety: Class 2

LASER SAFETY



a. Typical, at 23 °C ±3 °C.
b. Only available on hardware revision C.
c. At calibrated wavelengths.
d. With EXFO light sources.
e. For the range −35 dBm to 10 dBm.
f. Excluding connector wear.


GP-2267


GP-3157


GP-2227


GP-3257


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-3257	USB-A to USB-C cable
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

Provided by: Mega Hertz | 800-883-8839 | info@go2mhz.com | www.go2mhz.com
https://www.go2mhz.com/product/service-activation-pon-power-meter/

EXFO serves over 2000 customers in more than 100 countries.

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