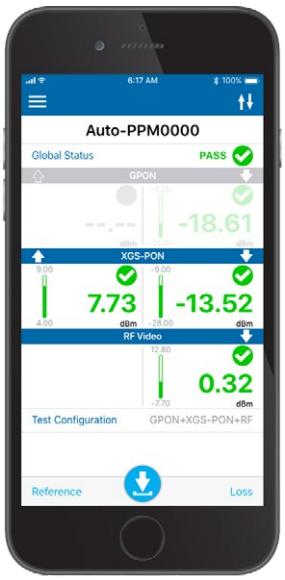
SPEC SHEET

PPM-350D PON power meter

TEST ANY PON TECHNOLOGY WITH ONE INTELLIGENT INSTRUMENT





- The first PON-aware™ power meter to automatically detect and test next-gen and legacy PON technologies, both upstream and downstream with passthrough capability.

COMPATIBLE WITH Xchange PON-aware™

KEY FEATURES

- Unique PON-aware™ capability automatically detects PON technology in use
- Compatible with GPON and EPON networks
- Supports 10G- and 25G-capable PON networks
- Pass-through mode for ONT/ONU verification
- Bluetooth® and USB connectivity
- Smart app to store and share test results, create test reports
- Compact, rugged and designed to comply with the IP54 enclosure standard
- Rechargeable battery lasts for up to 8 hours of continuous use

APPLICATIONS

- Single-layer PON service activation
- Multi-layer PON service activation
- Insertion loss testing
- Multiple PON technologies supported on a single unit:
  - GPON (ITU-T G984.2)
  - EPON (IEEE 802.3)
  - XG(S)-PON (ITU-T G987.2)
  - TWDM NG-PON2 (ITU-T G989.2)
  - RF overlay
  - RFoG (ANSI/SCTE 174 2010)
  - 25G PON (25GSPON-MSA 4.0)

RELATED PRODUCT



Fiber inspection scope
FIP-400B wireless



Connector Checker™
FIP-200



Optical fiber multimeter (OFM)
Optical Explorer

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NEXT-GENERATION PON COMPLIANT

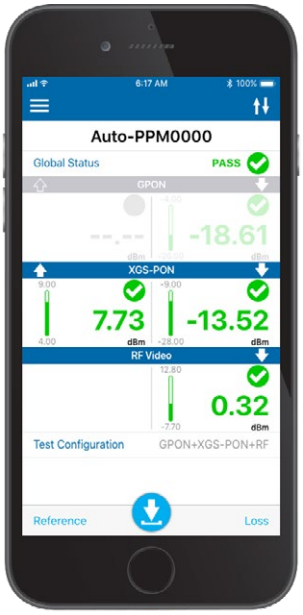
Next-generation passive optical networks (PONs) will, in most cases, leverage the existing outdoor plant infrastructure already in use for current PON customers. This adds a level of complexity to PON testing since multiple wavelengths will reach the end user at the service activation location. Having the right instrument is vital to avoid meaningless test results or false positives.

EXFO's PPM-350D can be used in legacy and next-generation PON scenarios. It is compatible with single-layer PON and RF overlays as well as mixing a next-generation layer on top of it. The PPM-350D affords the unique ability to test several next-generation PON technologies (XGS-PON, NG-PON2, 25G PON) with a single unit. With the same PPM-350D test unit you can tackle today's increasing field complexities and you are already equipped for tomorrow's PON challenges.

PON-AWARE TECHNOLOGY

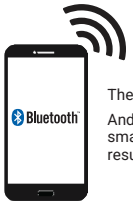
Deploying a mix of legacy and next-generation equipment? No problem. By relying on pre-configured and customizable test configurations, the PPM-350D automatically detects the type of network under test and self-adjusts the pass/fail criteria for error-free testing.

EQUIPEMENT AND MOBILE APP OVERVIEW





1. Pass/fail LEDs for upstream and downstream. Get a clear view of pass/fail status without looking at the screen.
2. Touchscreen interface
3. View of multiple layers simultaneously
4. Designed in compliance with IP54 rating.
   Rechargeable battery.
   Internal storage up to 3500 results.
   Bluetooth® and USB connectivity.



The PPM-350D features standard Bluetooth connectivity.

Android™ and iOS® mobile applications let you use your smart device to store results, create test reports, share results and more.

Example of a triple layer network with GPON, XGS-PON and an RF video overlay. PON-aware™ technology helps technicians validate the service activation for GPON and XGS-PON customers with a single test configuration. The PON-aware™ feature automatically detects the service being activated and provides a clear pass/fail status according to that service.



REPORTING

Create complete service activation reports directly from your mobile device.



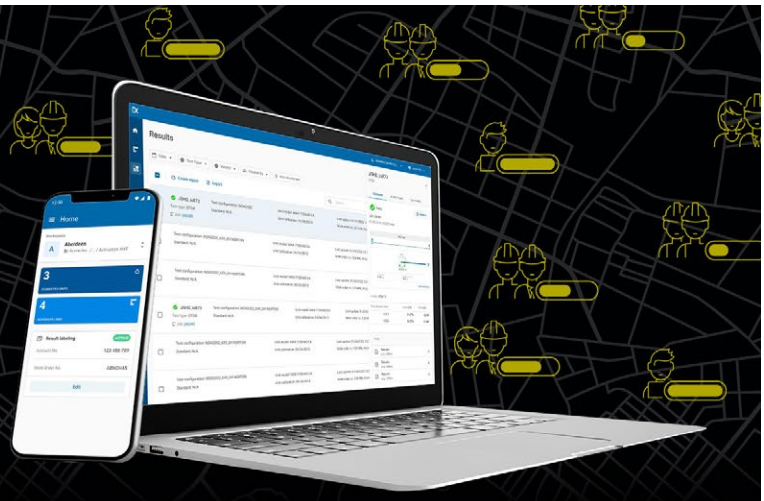
LOSS TESTING

On top of using it for PON service activation, the PPM-350D can be used to measure insertion loss (IL) of fiber networks using a portable light source or the PON system transmit cards of the optical line terminal (OLT) at the central office. The PPM-350D and the mobile application feature a loss testing mode to take a reference for accurate IL measurement of the fiber under test.

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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 >**

EXFO

FIBER CONNECTOR INSPECTION AND CERTIFICATION– THE ESSENTIAL FIRST STEP BEFORE ANY OTDR TESTING

Taking the time to properly inspect a fiber-optic connector using an EXFO fiber inspection scope can prevent a host of issues from arising further down the line, thus saving you time, money and trouble. Moreover, using a fully automated solution with autofocus capabilities will turn this critical inspection phase into a fast and hassle-free one-step process.

Did you know that the connector of your OTDR/iOLM is also critical?

The presence of a dirty connector at an OTDR port or launch cable can negatively impact your test results, and even cause permanent damage during mating. Therefore, it is critical to regularly inspect these connectors to ensure that they are free of any contamination. Making inspection the first step of your OTDR best practices will maximize the performances of your OTDR and your efficiency.



FEATURES	CONNECTOR CHECKER™	USB WIRED	WIRELESS	AUTONOMOUS
	FIP-200/210	FIP-430B	FIP-435B	FIP-500
Image capture	•[a]	•	•	•
Five-megapixel CMOS capturing device	•	•	•	•
Automatic fiber image-centering function and focus adjustment	•	•	•	•
On-board pass/fail analysis	•	•	•	•
Pass/fail LED indicator		•	•	•
Quality rating bar analysis	•			
USB connectivity to an EXFO platform or PC		•	•	
Wireless connectivity to an EXFO platform or PC			•	
Wireless connectivity to a smartphone	•		•	•
Manual scanning for multifiber / MPO connectors		•	•	
Semi-automated multifiber / MPO inspection		•	•	
Fully automated multifiber / MPO inspection				•
On-board touch screen and data storage				•
SmarTips with automated thresholds				•
Quick-connect mechanism				•

a. FIP-210 only.

For more information, visit www.EXFO.com/fiberinspection.

FOUR PON OPTIONS

Choose from four models to match your PON testing needs: single-layer with RF overlay (PPM-350D-SR) • dual-layer (PPM-350D-D) • dual-layer with RF overlay (PPM-350D-DR) • triple-layer (PPM-350D-T).



	UPSTREAM (nm)	DOWNSTREAM (nm)	PPM-350D-SR	PPM-350D-D	PPM-350D-DR	PPM-350D-T
GPON (ITU-T G984.2)	1310	1490	•	•	•	•
1G EPON (IEEE 802.3)	1310	1490	•	•	•	•
XG/XGS-PON (ITU-T G987.2)	1270	1578		•	•	•
TWDM NG-PON2 (ITU-T G989.2)	1524 to 1544	1596 to 1603		•	•	•
10G EPON (IEEE 802.3)	1270	1577		•	•	•
RF video overlay		1550	•		•	•
RFoG (ANSI/SCTE 174 2010)	1310 or 1610	1550	•		•	
25G PON (25GSPON-MSA 4.0)	1286	1358				•

VISUAL FAULT LOCATER OPTION

The PPM-350D's optional visual fault locator (VFL) enables quick and easy troubleshooting to identify breaks, bends and faulty connectors or splices, as well as other causes of signal loss. This valuable option helps you shorten time-to-restoration cycles and increase the productivity of your field crews.

FTTx SPECIFICATIONS [a]

		Spectral passband (nm)	Power measurement range (dBm)	Calibrated wavelength (nm)	Maximum total safe power (dBm)
ONT/ONU	Upstream 1270 nm, burst mode	1260 to 1280	–10 to 13	1270	16
	Upstream 1286 nm, burst mode	1276 to 1296	–10 to 13	1286	
	Upstream 1310 nm, burst mode	1290 to 1330	–30 to 13	1310	
	Upstream 1524-1544 nm, burst mode	1330 to 1630 [b]	–10 to 13	1534	
	Upstream 1550 nm, burst mode	1330 to 1630	–10 to 13	1550	
	Upstream 1610 nm, burst mode	1330 to 1630 [b]	–10 to 13	1610	
OLT	Downstream 1358 nm [c]	1260 to 1380	–50 to 17	1358	20
	Downstream 1490 nm	1480 to 1500	–50 to 13	1490	17 20 [c]
	Downstream 1550 nm	1540 to 1560	–35 to 26	1550	27
	Downstream 1577-1578 nm	1573 to 1630	–50 to 17	1578	20
	Downstream 1596-1603 nm	1573 to 1630	–50 to 17	1600	
	Downstream 1610 nm	1573 to 1630	–50 to 17	1610	
ORL (dB)	60 [d]				
Pass-through insertion loss (dB)	1.5				
Power uncertainty (dB)	0.5 [e]				

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

Laser, 650 nm ± 10 nm
CW/Modulate 1 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 and with SC/APC connectors.
b. For model PPM-350D-DR, 1555 nm ± 5 nm is excluded from the spectral passband.
c. T model.
d. At calibrated wavelength.
e. At input level 2 dBm, CW.

SPECIFICATIONS

GENERAL SPECIFICATIONS

PLATFORM AND USABILITY

Storage capacity	Up to 3500 results
Display resolution (dBm)	0.01
Measurement units	dB, dBm
Display size	69 mm (2.7 in)
Display type	Reflective
Display pixel count	400 × 240
Connector	USB type C
Connectivity	Bluetooth low energy
Smart device OS compatibility	Android 6 and above, iOS 11 and above

BATTERY AND POWER

Battery autonomy	8 hours of continuous use
Battery charge time (hours)	< 2

PHYSICAL AND ENVIRONMENTAL INFORMATION

Size (H × W × D)	154 mm × 88 mm × 41 mm (6 1/16 in × 3 1/2 in × 1 5/8 in)
Weight	420 g (0.93 lb) [a]
Temperature (operating)	0 °C to 50 °C (32 °F to 122 °F)
Temperature (storage)	−40 °C to 70 °C (−40 °F to 158 °F)

SERVICE AND CALIBRATION INFORMATION

Warranty (year)	1

STANDARD ACCESSORIES INCLUDED

GP-3257	USB-A to USB-C cable	GP-2277	Rechargeable battery
GP-2227	USB AC adapter	GP-10-071	Soft carrying case
GP-2275	Wrist strap	GP-10-104	Rigid carrying case
GP-2274	Protective cover for optical ports	GP-1008	VFL adapter for 1.25 mm ferrule
Instruction manual (soft copy)		Certificate of calibration (hard copy)	

a. PPM-350D-SR model.

ORDERING INFORMATION

PPM-350D-XX-XX-XX

PON option
SR = Single PON layer and RF video
D = Dual PON layer
DR = Dual PON layer and RF video
T = Triple PON layer

VFL option
00 = Without visual fault locator
VFL = With visual fault locator

Connectors
EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000
EA-EUI-98 = APC/LC

Example: PPM-350D-DR-VFL-EA-EUI-91

MHz MEGA HERTZ
Provided by: Mega Hertz | 800-883-8839 | info@go2mhz.com | www.go2mhz.com

EXFO serves over 2000 customers in more than 100 countries.

https://www.go2mhz.com/product/pon-power-meter/

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