

PPM-350C

NETWORK TESTING—OPTICAL

[EXFO PPM-352C Specs](#)
 Provided by www.AAATesters.com



Unique workflow management, for faster PON deployments

- Simultaneous measurement of all PON signals*, anywhere on the network
- Innovative workflow management, for boosted test routine efficiency
- Enhanced rugged and weatherproof design
- Protected data format, for guaranteed test result authenticity

* Protected by US Patent no. 7,187,861, European Patent no. 1,673,881 and associated national

entries in numerous European countries, German Utility Patent no. 20 2004 021 208.0, Russian Federation Patent no.2,345,490, Canadian Patent no. 2,541,838, and subject to pending national entry in China.



Next-Generation Network Assessment

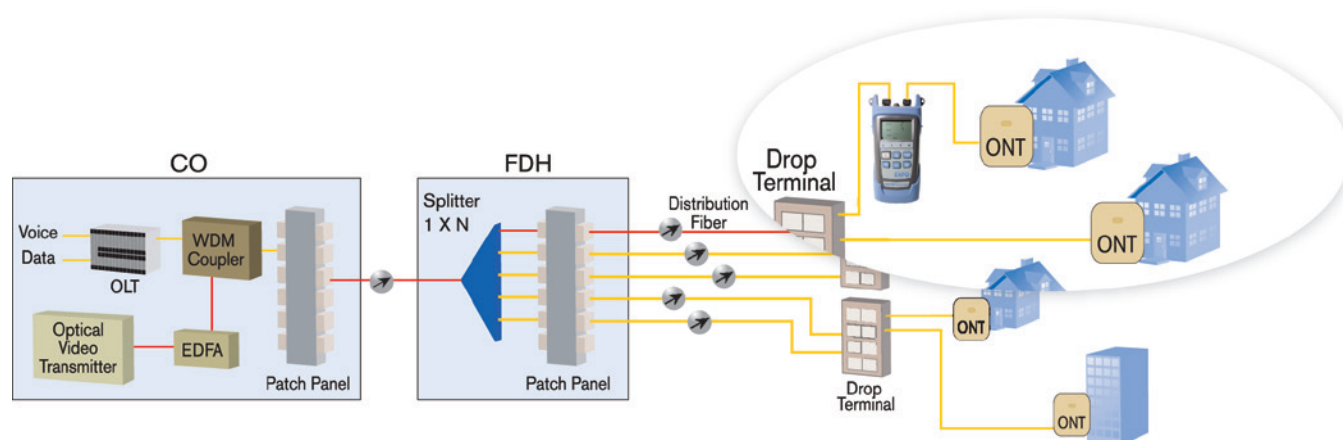


The Frontrunner Now Runs Even Faster

When FTTH was first deployed, EXFO was there to test it, namely by pioneering the simultaneous upstream/downstream measurement technique via a pass-through connection. In fact, the EXFO-pioneered PPM-350 series, which quickly established itself as the clear-cut leader in the PON power meter market—over 21 000 units have been sold until now—has played an important part in major FTTH deployments worldwide.

Since then, we have developed our instrument even more to provide you with the best PON power meter yet. The PPM-350C enables quick, on-site testing of all PON signals, anywhere on the network. Its new workflow management capabilities and enhanced ruggedness will increase the efficiency of your daily deployment activities.

Moreover, its visual fault locator port allows for easy fiber identification and macrobend location. This handheld unit also features pass/warning/fail LED indicators with user-defined thresholds.



■ Typical use of a pass-through filter in a PON network.



Reliable Performance, Whether the Elements Agree or Not

Thanks to its enhanced weatherproof design and straightforward user interface, and building on the strength of its predecessor, the PPM-350B, the PPM-350C PON Power Meter establishes a new FTTx testing benchmark. It delivers fast, reliable results, even when used in cold, wet or windy conditions.

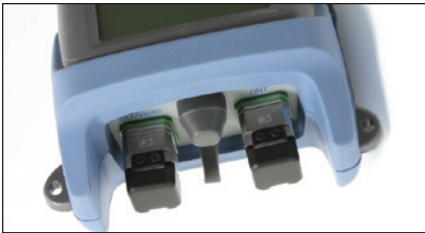


Easy-to-Access Data Storage

The unit's data storage capabilities provide ultimate flexibility. Transfer your data quickly and easily, store your test results for future reference and generate a wide range of FTTH reports. Moreover, the PPM-350C allows you to store up to 1000 test results, which are downloadable through its USB interface.

Simultaneous Measurement of All PON Signals

The PPM-350C acts as a pass-through device, allowing the simultaneous measurement and display of all PON signals—voice, data and video. This patented, built-in technology facilitates service activation testing and troubleshooting.



Quick and Efficient Visual Inspection

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

Automated Pass/Warning/Fail Assessment

In addition to user-defined thresholds, EXFO's new PON power meter offers pass/warning/fail LED indicators that allow you to clearly and quickly assess your network's power level. This user-friendly feature facilitates QoS verification.



Rugged and Weatherproof Design

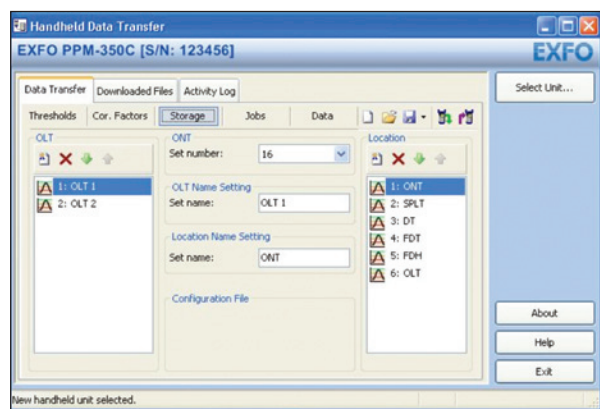
Truly rugged and weatherproof, the PPM-350C is the ideal tool for technicians working outdoors. What's more, its enhanced design also features a waterproof keyboard, port cover flaps and a protective cap.



Unique Workflow Management, for Faster Deployments

Ensure the authenticity of each measure

Eliminate the guesswork with EXFO's comprehensive and easy-to-use data-storage interface designed with PON testing in mind. As such, test results can be stored and flagged per OLT, per ONT and even per location. Then, they are stored in a protected data format, ensuring the authenticity of each measure.



Customize Location Names, Inside and Outside

The computer interface allows easy customization of OLT, ONT and location names. Start testing right away; don't waste time naming the files. This time-saving feature eliminates the risk of errors. Each file is named correctly so you don't have to worry about having to rename each file when you are back at the office.



Eliminate Wrong Data Naming and Speed Up Test Routines

The PPM-350C features a Job Editor mode, which allows you to pre-configure upcoming jobs in the unit's memory. Once on location, you simply have to select the job ID, the ONT number and the location ID for quick data storage—making the need to carry your work schedule in the field a thing of the past. This is the best way to link results with customers/activations, also called jobs. It's as easy as 1-2-3:



Plus, if the Job Editor mode is not configured, you can still store your results using generic names, for quick and efficient testing.

OLT ID: 02 Center ↔ ONT ID:22 [JOB ID: Roger]				PASS
Location	Wavelength (nm)	Power (dBm)	Status	Date/Time (MM/DD/YY HH:MM:SS)
DROP	1310	0.9	PASS	10/01/09 13:45:28
	1490	-7.1	PASS	
	1550	3.1	PASS	
ONT	1310	1.2	PASS	10/01/09 13:54:32
	1490	-7.4	PASS	
	1550	3.4	PASS	
Comment:	ONT installed on the driveway side of the home close to side entry.			

FTTx Service activation report **EXFO**
EXPERIENCE REACHES OUT

Job information
Report date: 10/01/2009
Customer: 418-124-4507
Contractor: ESDF

Unit name: PPM-350C
Serial number: 348332

Power level measurements

OLT ID: 02 Center ↔ ONT ID:22 [JOB ID: Roger]				PASS
Location	Wavelength (nm)	Power (dBm)	Status	Date/Time (MM/DD/YY HH:MM:SS)
DROP	1310	0.9	PASS	10/01/09 13:45:28
	1490	-7.1	PASS	
	1550	3.1	PASS	
ONT	1310	1.2	PASS	10/01/09 13:54:32
	1490	-7.4	PASS	
	1550	3.4	PASS	

Comment: ONT installed on the driveway side of the home close to side entry.

APPLIED THRESHOLDS

Location	Wavelength (nm)	Pass (dBm)	Warning (dBm)	Fail (dBm)
DROP	1310	2.0	-6.5	-9.5
	1490	6.0	-29.5	-26.5
	1550	12.8	-4.7	-7.7
ONT	1310	2.8	-4.0	-7.0
	1490	-5.5	-24.0	-27.0
	1550	13.8	-9.2	-12.2

Configurations

	PPM-352C	PPM-353C
Two-port pass-through: all wavelengths	x	x
Downstream OLT signal (1490 nm)	x	x
Downstream RF video signal (1550 nm)	x	
Upstream BPON ONT signal for up to 622 Mbit/s, as per ITU 983 (A, B, C)	x	x
Upstream EPON and GPON ONT signal for up to 1.25 Gbit/s, as per ITU 984 and IEEE 802.3ah	x	x

Specifications ^a

FTTx MODE	PPM-352C	PPM-353C
Power measurement range—pass zone for continuous data stream (dBm)		
1310 nm	8 to -40	8 to -40
1490 nm	12 to -40	12 to -40
1550 nm	25 to -40	N/A
Burst measurement capability	CO to ONT	CO to ONT
Burst measurement range ^b (dBm)		
1310 nm	8 to -30	8 to -30
ORL ^e (dB)		
1550 nm	55	55
Pass-through insertion loss ^b (dB)	1.5	1.5
Spectral passband (nm)		
1310 nm	1260 to 1360	1260 to 1360
1490 nm	1480 to 1500	1480 to 1500
1550 nm	1539 to 1565	1539 to 1565
Power uncertainty ^{b, c, d} (dB)	0.5	0.5
Calibrated wavelengths (nm)	1310/1490/1550	1310/1490
Threshold sets	10 configurable threshold sets with threshold naming	10 configurable threshold sets with threshold naming

OPM MODE (BROADBAND CW)

Power measurement range (dBm)	
1310 nm	25 to -40
1490 nm	25 to -40
1550 nm	25 to -40
ORL ^e (dB)	
1550 nm	55
Power uncertainty ^{b, c, d} (dB)	0.5
Calibrated wavelengths (nm)	1310/1490/1550

GENERAL SPECIFICATIONS

Size (H x W x D)	195 mm x 100 mm x 57 mm (7 11/16 in x 4 in x 2 1/4 in)
Weight ^f	0.4 kg (0.9 lb)
Temperature	
Operating	-10 °C to 50 °C (14 °F to 122 °F)
Storage ^f	-40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity	0 % to 95 % non-condensing
Autonomy ^b (hours)	
FTTx mode (burst)	35
OPM mode (CW)	80
Number of ports	2
Warranty and recommended calibration interval (years) ^g	3

STANDARD ACCESSORIES

Quick reference guide, USB cable, software and user guide on CD, wrist strap, protective cover for optical ports.

Notes

- At room temperature.
- Typical.
- Around -7 dBm, CW.
- At calibrated wavelengths.
- For APC connectors.
- Without batteries.
- Excluding connector wear.

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 3R WITH VFL OPTION



ORDERING INFORMATION

PPM-35XC-XX-XX

■ Models

PPM-352C = PON Power Meter, two ports,
extended range, BPON, EPON, GPON
FTTx mode: 1310/1490/1550 nm

PPM-353C = PON Power Meter, two ports,
extended range, BPON, EPON, GPON
FTTx mode: 1310/1490 nm

■ Visual fault locator

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

■ Connectors ^a

EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000
EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000

Example: PPM-352C-VFL-EA-EUI-91

Note

a. Same connectors for both ports.



Complementary Products

AXS-100 ACCESS OTDR

Specifically designed for in-service PON troubleshooting, EXFO's AXS-100 Access OTDR combines the industry's leading OTDR technology with power meter functionalities in one powerful handheld unit. Optimized for point-to-point testing of passive optical networks (PON) within FTTH architectures, it offers several wavelength configurations and a wide range of options, for first-class flexibility.

For details on the AXS-100, please refer to the detailed product specification sheet at <http://documents.exfo.com/specsheets/AXS-100-angHR.pdf>.



FIP-400 FIBER INSPECTION PROBE

EXFO's FIP-400 is a highly versatile probe that detects dirty/damaged connectors with unparalleled precision. Thanks to this probe, checking connectors and other fiber terminations for polish quality and cleanliness has never been easier. Benefit from the best optical resolution in the industry and see scratches and dirt particles as small as 1 μm .

For details on the FIP-400, please refer to the detailed product specification sheet at <http://documents.exfo.com/specsheets/FIP-400-angHR.pdf>.



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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 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 the EXFO website at <http://www.EXFO.com/specs>

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