

## PPM-350C PON Power Meter

### PRODUCT DETAILS

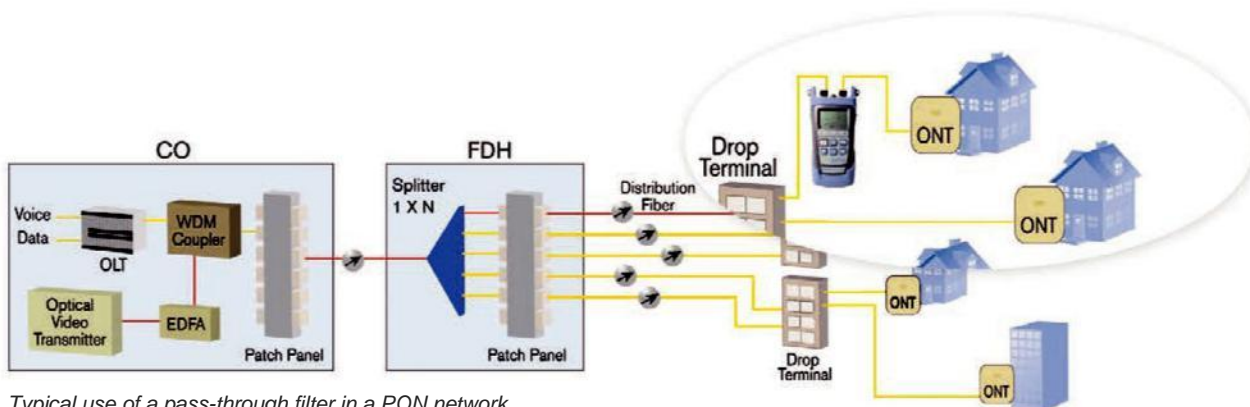
**The Frontrunner Now Runs Even Faster** – When FTTH was first deployed, EXFO was there to test it, namely by pioneering the concurrent upstream/downstream measurement technique via a pass-through connection. In fact, the EXFO-pioneered PPM-350 series, which quickly established itself as the clear-cut leader in the PON power meter market – over 35000 units sold – 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 to date. 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 fibre identification and macrobend location. This handheld unit also features pass/warning/fail LED indicators with user-defined thresholds.

### KEY FEATURES

- Concurrent 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



*Typical use of a pass-through filter in a PON network*



In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

## RELIABLE PERFORMANCE, WHETHER THE ELEMENTS AGREE OR NOT

Thanks to its enhanced weatherproof design and intuitive user interface, 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. The PPM-350C allows you to store up to 1000 test results, which are downloadable through its USB interface.



### Simultaneous Display of All PON Signals

The PPM-350C acts as a pass-through device, allowing the concurrent measurement and simultaneous display of all PON signals – voice, data and video.



### Quick and Efficient Visual Inspection

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 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. Its enhanced design also features a waterproof keyboard, port cover flaps and a protective cap.



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## UNIQUE WORKFLOW MANAGEMENT FOR FASTER DEPLOYMENTS

### Ensure the Authenticity of Each Measurement

Eliminate guesswork with EXFO's comprehensive and easy-to-use data-storage interface designed with PON testing in mind.

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 measurement.



### 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 files. This time-saving feature eliminates the risk of mistakes. 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:**



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.				

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## SPECIFICATIONS

### CONFIGURATIONS

Two-port pass-through: all wavelengths	4
Downstream OLT signal (1490nm)	4
Downstream RF video signal (1550nm)	4
Upstream BPON ONT signal for up to 622Mbit/s, as per ITU 983 (A, B, C)	4
Upstream EPON and GPON ONT signal for up to 1.25Gbit/s, as per ITU 984 and IEEE 802.3ah	4

### FTTx MODE

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

### OPM MODE (BROADBAND CW)

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

### STANDARD ACCESSORIES

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

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## SPECIFICATIONS

GENERAL SPECIFICATIONS	
Size (HxWxD)	195 x 100 x 57mm
Weight <sup>a</sup>	0.4kg
Temperature Operating Storage <sup>c</sup>	-10°C to 50°C (14°F to 122°F) -40°C to 70°C (-40°F to 158°F)
Relative humidity	0% to 95% non-condensing
Autonomy <sup>b</sup> (hours) FTTx mode (burst) OPM mode (CW)	35 80
Number of ports	2
Warranty and recommended calibration interval (years) <sup>g</sup>	3

### LASER SAFETY

21 CFR 1040.10 and IEC 60825-1:2007 CLASS 3R with VFL option

### Notes

- a. At room temperature
- b. Typical
- c. Around -7 dBm, CW
- d. At calibrated wavelengths
- e. For APC connectors
- f. Without batteries
- g. Excluding connector wear

## ORDERING INFORMATION

PRODUCT CODE	DESCRIPTION
EXF-PPM352C-SCA	EXFO PON Power Meter 1310/1490/1550 SCA Ports
EXF-PPM352C-V-SCA	EXFO PON Power Meter 1310/1490/1550 VFL SCA Ports

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