Precision Rated Optics

Work with a PRO!

PON-301B *PON Meter*

The Smallest Full-feature PON Power Meter

Pass-through Simultaneous Measurement and Display of all PON Signals

- Specifically Designed for FTTx/PON (B/E/G) applications
- Easy Operation: Connect Fiber and Get Results
- “Pass-through” Connection and Simultaneous Measurement of all PON Signals
- Filtered Detectors for Individual Signal Measurement at each Wavelength
- Upstream Signal “Burst Mode” Detection at 1310nm
- LCD Screen Is Viewable In Sunlight
- LC Hybrid Cable Assemblies Used to Test Equipment with LC Connectors

FTTx

P/N: PRO-PON-301B v.3.2.16

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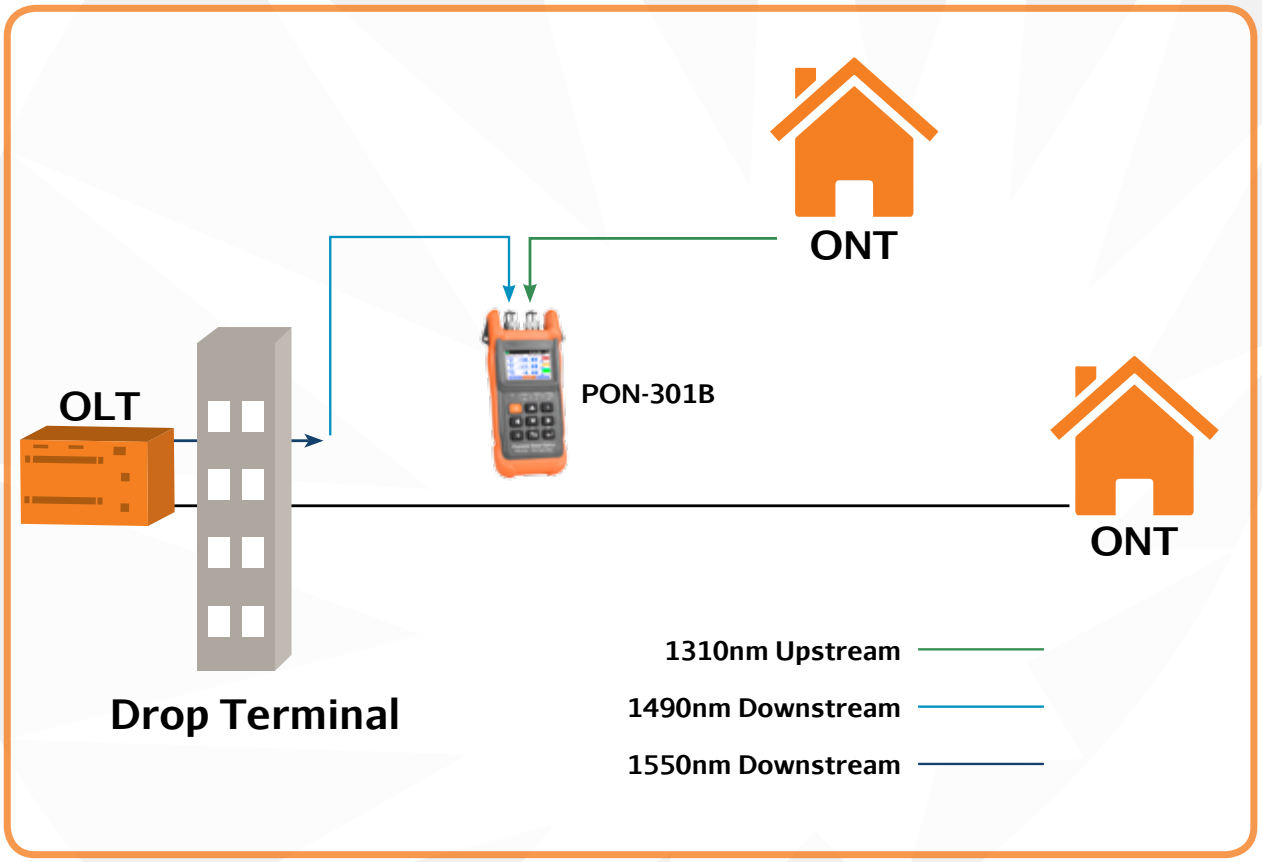
Tel: (888) 545-1254 • Fax: (415) 358-4602 • Email: Sales@PrecisionRatedOptics.com

Flexible Measurement on PON

The PON-301B works as a pass-through device, which can be connected anywhere between OLT and ONT. A small percentage of optical signals are extracted for use by PON-301B detectors. This approach enables all wavelengths to be used simultaneously and introduces no interruption to network services.

Precision Rated Optics PON-301B is specially designed for FTTx/PON testing of next-generation optical network which features handheld, intelligent and high performance.



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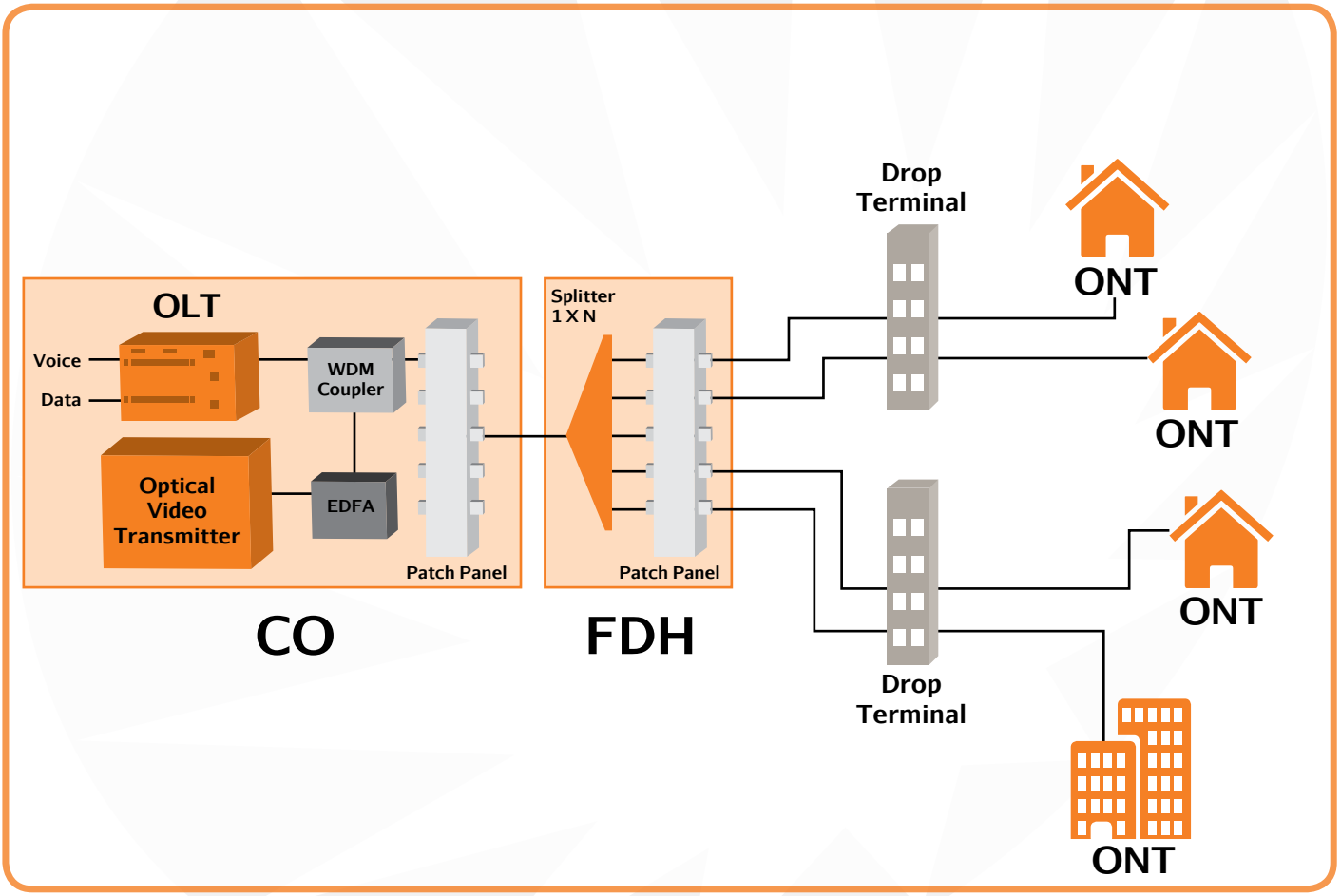
User-defined Threshold Sets

The PON-301B enables threshold settings - each set consists of three wavelengths (1310, 1490 and 1550nm) with their own Pass, Warning and Fail thresholds. Each wavelength has the ability to add up to 10 threshold settings. These values can be configured for easy assessment of fibers, components and test points on the network. Essentially the PON-301B is capable of 30 different settings.



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Convenient and Easy-to-Use PON Power Meter Solution

Data Storage for 2,000 Records

The PON-301B can be configured to “Mass Storage” to enable the PON-301B as a USB storage device when connected to a PC with a micro USB for easy file management of the test data. The user can then convert saved data to .CSV format which can be opened in Microsoft Excel.

Simultaneous Measurement of All PON Signals

The PON-301B acts as a pass-through device, allowing the simultaneous measurement and display of all PON signals (1310/1490/1550nm) - voice, data and video.

Automated Pass/Fail/Warning Assessment

In addition to user-defined thresholds, Precision Rated Optic’s PON-301B PON Power Meter offers pass/fail/warning LED indicators which allow the user to quickly and easily assess the network’s power level.

Full Day of PON Testing at Your Fingertips

The rechargeable lithium-ion battery (1050mAh) packs a punch with 6 or more hours of PON testing at your disposal. At the end of the day, the PON-301B can recharged with an AC adapter and be ready for another day of work in very little time.

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PON Network Testing has Never Been Easier

The PON-301B is incredibly easy to utilize. The intuitive user-interface allows for smooth transitions between displays. The PON-301B is easy to operate and understand, making it a practical and convenient tool for every FTTx installation and inspection.

The PON-301B is color-coded for pass, fail and warning making it easier than ever to test your network. In addition to the physical number, the colored labels allow for visuals aids for setting your thresholds.

LEDs quickly indicate the current wavelength that is being tested - no guess work involved.

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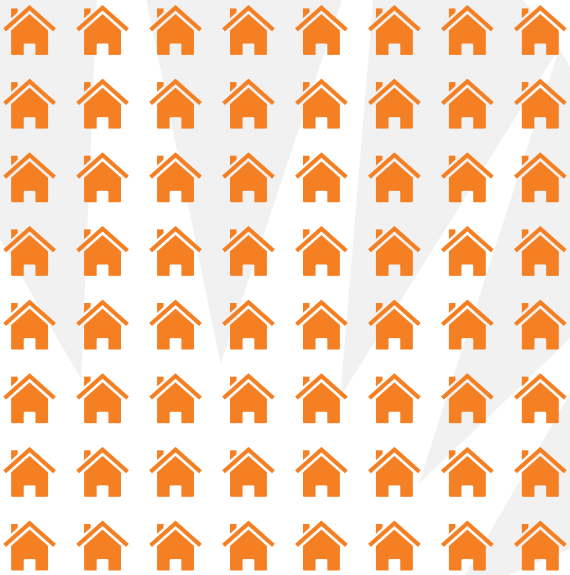
PON Network Testing has Never Been Easier

Unlike many of the PON Power Meters on the market, the Precision Rated Optics PON-301B can work on a system that has a 1:32 splitter or 1:64 splitter. The PON-301B is ideal for FTTx applications (EPON, BPON, GPON, GePON).

1:32 Splitter

1:64 Splitter



= The wavelength can be split 32 or 64 ways, allowing a signal to go to 32 or 64 houses.

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SPECIFICATIONS

Calibrated Wavelength	**1310nm**	**1490nm**	**1550nm**
Measurement Range	-40 ~ +10	-40 ~ +12	-40 ~ +20
Spectral Passband (nm)	1310±50	1490±15	1550±10
Power Uncertainty (dB)	≤ 0.5		
Accuracy (dB)	0.01		
Insertion Loss (dB)	≤ 1.5		
Display	Color TFT		
Connectors	FC/PC (Interchangeable SC, ST)		
Data Storage	> 2,000 Records		
Data Interface	USB		
Power Supply	Rechargeable Lithium-ion Battery (1050mAh) / AC/DC Power Adapter/Charger Voltage: 110-240 VAC Frequency: 50-60 Hz		
Battery Capacity	≥ 6 Hours		
Operating Temperature	14°F ~ 140°F (-10°C ~ 60°C)		
Storage Temperature	-13°F ~ 158°F (-25°C ~ 70°C)		
Environmental Conditions	0 ~ 95% (Humidity, Non-Condensing)		
International Protection Rating (Ingress Protection Rating)	IP54 (Protected from limited dust ingress & Protected from water spray from any direction)		
Drop Test	2 meters		
Weight & Dimensions (HxWxD)	6.9" x 3.1" x 1.7" / 12.1oz (177 x 80 x 44mm / 345g)		

PON-301B Standard Package Includes:

PON Meter, SC/APC - SC/APC Cable Assembly (1 meter), SC/APC - LC/APC Cable Assembly (1 meter), Lithium-ion Battery, Protective Rubber Boot, USB Data Transfer Cable, PC Software CD, AC/DC Power Adapter/Charger, CE Certificate, Certificate of Calibration, User Manual, Protective Soft Carrying Case

Ordering Information

PON-301B	Triple-Play PON Meter 1310/1490/1550

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Related Products

FTP-1 Series FTTx OTDR

The PRO FTP-1 OTDR is designed for FTTx applications. It can test the length, fiber loss, connector loss and other physical characteristics of fiber. With up to 65,534 sampling points, it can precisely locate fiber events and is perfectly suited for FTTx applications, installation and maintenance, as well as fiber R&D and singlemode network testing. The PRO FTP-1 OTDR puts massive OTDR testing power in the palm of your hand at an affordable price.

For details on the FTP-1 Series FTTx OTDR, visit the product page at:
http://precisionratedoptics.com/shop/ftp-1-series-otdr/pro-ftp-1-fttx-otdr/

OFS-935C Core Alignment Fusion Splicer

The PRO OFS-935C is the perfect splicer for ANY job. This splicer has it all, from the easy-to-use touch screen interface to the rock solid core alignment splicing — all at a price that is thousands less than other comparable brands.

For details on the OFS-935C Fusion Splicer, visit the product page at:
http://precisionratedoptics.com/shop/splicing/fusion-splicers/ofs-935c-fusion-splicer-core-alignment/

Launch Box

Ideally, a Launch Box should be used at both ends of the fiber under test, in order to achieve the highest degree of accuracy when characterizing a length of fiber. PRO can custom-build Launch Boxes to your specific requirements, with any connectors you want, determined by the type of equipment you are using, as well as the type of testing you are typically performing.

For details on Custom-Built Lauch Boxes, visit the product page at:
http://precisionratedoptics.com/product-category/test-equipment/pulse-suppressors-launch-boxes/

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