VIAVI
OLP-87

SmartClass Fiber PON Power Meter
NG-PON2 Wavelength Selective Version

VIAVI
VIAVI Solutions

The VIAVI Solutions OLP-87 NG-PON2 is an FTTx/PON power meter for use in qualifying, activating, and troubleshooting of next-generation, high-speed NG-PON2 networks.

Part of the VIAVI SmartClass™ Fiber family, the OLP-87 NG-PON2 combines a high-performance λ-selective FTTx/PON meter with pass/fail fiber inspection analysis into one portable solution. These combined capabilities guarantee service providers a lifetime of network and service performance, and gives contractors an essential tool for delivering best-in-class, reliable networks to their customers. The OLP-87 is ideal for end-of-line testing, activation, and maintenance of NG-PON2 networks. By using separate wavelength selective power meters it is possible to analyze each individual channel of the NG-PON2 signals separately. Low insertion loss, through-mode capability enables simultaneous power measurements of downstream and burst mode upstream signals.

The OLP-87 is compatible with the P5000i digital analysis microscope so users can check fiber end-face quality and get pass/fail acceptance results with one button push.

Benefits

- Reduced OPEX: Easy operation due to simplified workflow driven user interface reduces training cost and makes all technicians fiber experts

- Reduces time for trouble shooting as each individual NG-PON2 channel power can be analyzed

- Certification and documentation: Auto fiber end-face certification and PON-power measurements prove that quality of work meets industry standards and network/customer specifications
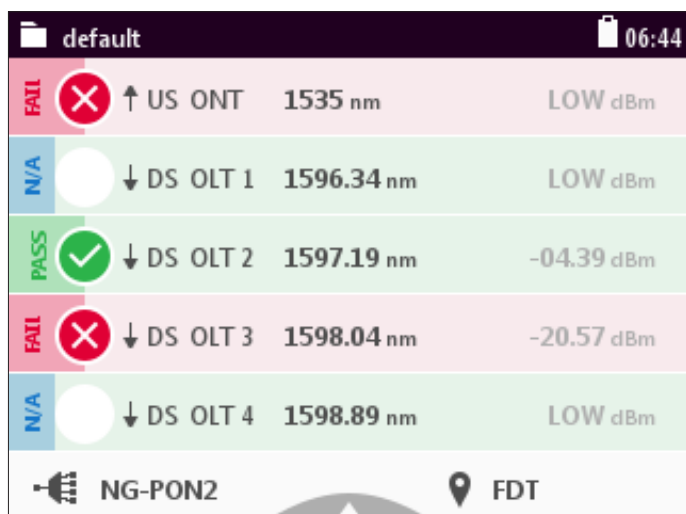
Features

- Field-portable λ selective PON power meter with through-mode capability

- Can measure each individual NG-PON2 TWDM-channel

- Burst mode measurement for NG-PON2 TWDM upstream signals

- Pre-defined threshold sets for auto Pass/Fail analysis of PON power measurements

- Automated Pass/Fail fiber inspection analysis with optional P5000i microscope

- Rugged, weather-proof design

A new workflow driven user interface simplifies acceptance testing with simple selection of ITU-T standardized pass/fail thresholds. Users can easily save test results and generate certification reports to document work quality. Integrating these capabilities into one solution drives technician behavior toward implementing today's best practices in a seamless workflow that optimizes efficiency and reliability to get jobs right—the first time.

The handheld OLP-87 can be used anywhere today's fiber technicians go, up poles or down holes. Technicians get ultimate flexibility and performance from this powerful, easy-to-use solution that can help any technician become an instant fiber expert.

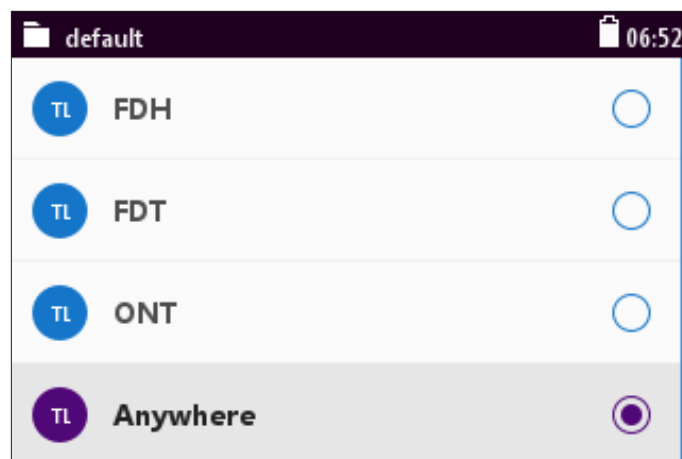## Wavelength selective power measurements in next generation NG-PON2 FTTx networks.

Analysis of the power level for each NG-PON2 channel

Inspect and Test Fiber Anywhere

Use optional P5000i digital analysis microscope with automatic image centering and auto pass/fail analysis to inspect fiber end faces and eliminate poor-quality components from entering your network.

New Workflow-driven GUI to Auto-Select Pass/Fail Acceptance Criteria

Easily select internally stored Pass/Fail thresholds by selecting the measurement Location providing reliable acceptance testing with simultaneous display of all PON power levels.

Store Inspection and Measurement Readings on the Device

Store up to 10,000 measurement results on the device or, for additional storage, on a USB memory stick.

Technical Specifications

Power[1,2]	NG-PON2 (TWDM)

Upstream[3]
  Spectral passband
  Meas. Range
  Max input power
	1535 nm
	1260 to 1620 nm
	-40 to +13 dBm
	+17 dBm

Downstream
  Meas. Range
  Max. input power (per channel)
	L75: 1598.89 nm; L76: 1598.04 nm; L77: 1597.18 nm; L78: 1596.34 nm
	-40 to +13 dBm
	+17 dBm

Measurement uncertainty	±0.5 dB[2,4]
Pass-through insertion loss	<1.5 dB[2]
ORL	>60 dB
Calibrated wavelengths	1535 nm, 1598.89 nm, 1598.04 nm, 1597.18 nm, 1596.34 nm

General Specifications

Display	High-contrast 3.5″ color LCD touch-screen
Display resolution	0.01 dBm/0.001 µW
Measurement units	dB, dBm, W, pass/fail
Fiber inspection	P5000i probe (option)
Threshold sets	Standardized threshold sets are pre-loaded
Live image	320x240x8 bit grey, 10 fps
Data memory	Up to 10,000 PON results
Data readout	Via client USB interface
Electrical interface	2 x USB host 1 x micro USB
Battery	Li-Ion batt-pack
Battery life	>10 hrs
Optical connectors (PON measurements)	SC/APC (optional: FC, ST and LC adapters)
Recommended recalibration interval	3 years
Dimensions Weight	8.2 x 4.4 x 2.5 in 1.6 lbs
Operating temp. range	14° to 122°F

Ordering Information

Description	Part Number
OLP-87 NG-PON2 wavelength selective, SC-APC Includes: RBP2 battery pack + PS4 power supply + UC4 handsfree carrier + Fiber One-Click Cleaner 2.5mm	2305/41

Options and Accessories

Description	Part Number
UC4 hands-free carrier	2128/01
SCASE2 soft shoulder case	2128/03
Fiber One-CLIck Cleaner 2.5mm	ECLICKCLEANER25
RBP2 rechargeable battery pack; Li-ion battery 3.7 V, 20 W/hr	2305/90.02
PS4 power supply, 12 V, 2 A	2305/90.01
P5000i Digital analysis probe, USB 2.0	FBP-P5000I
Commonly used inspection tips	VZ-TIP-Standard
Inspect Corning OptiTap receptacles	FBPT-COD-L

1. For NG-PON2 signals
2. At 23°C ± 3°C, at calibrated wavelengths
3. Burst mode: -35 to +13dBm
4. At 0 dBm

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

For more Information: go to viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration
BronzeCare	Technician Efficiency	Premium	✓	✓	✓		
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓