# VIAVI
SmartClass Fiber OLP-88/-88P TruePON

Full-featured G-PON and XGS-PON tester with
fiber connector inspection

The VIAVI Solutions® SmartClass™ Fiber OLP-88 TruePON tester is the ideal tool for field technicians dealing with G-PON and XGS-PON network service activation and for support teams charged with resolving service complaints and identifying the sources of issues. TruePON uses G-PON data analysis for real-time measurement of fiber optic cable insertion loss, downstream and upstream power levels, ODN class, and for instantaneous identification of OLT-ID ONU/ONT-ID as well as rogue ONUs causing service issues.

The tester also inspects and certifies fiber end faces, critical steps that must be performed before making any fiber optic connection. With TruePON, technicians get ultimate flexibility and performance from a powerful, easy-to-use solution that instantly turns any user into a Fiber Smart technician.
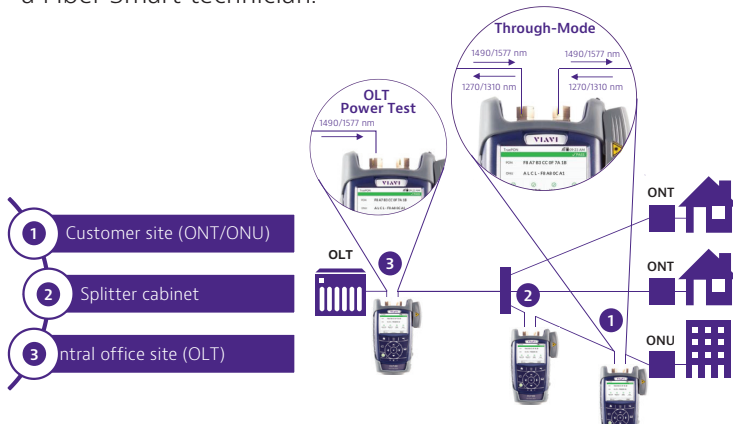
Connect and perform measurements anywhere in your PON network

Key Benefits

- Ensures first-time-right G-PON and XGS-PON network acceptance
- Reduces workflow complexity during service activation
- Speeds on-site troubleshooting and facilitates service recovery
- Drives optimal user workflows and behaviors to eliminate issues caused by poor practices

Key Features

- Wavelength-selective, through-mode power meter for B-PON, E-PON, G-PON, XGS-PON and 10G-EPON networks
- Available in 1310/1490 nm, 1310/1490/1550 nm and 1270/1310/1490/1577 nm versions
  - Automatic ODN class detection and power-level pass/fail analysis
  - In-service loss measurements
  - OLT identification; ONU/ONT serial number extraction; rogue and alien ONU detection
- Low-insertion loss (<1.5 dB)
- Automated pass/fail fiber inspection analysis with built-in patch-cord microscope or optional P5000i probe
- Easy generation of professional certification reports

## Transforms G-PON Service Activation and Troubleshooting

The comprehensive TruePON tester uses a new technology that enables precise G-PON data analysis for faster, error-free service activations and advanced troubleshooting.

Its sophisticated data analysis:

- Extracts G-PON-specific data carried in the PON-ID standardized by ITU-T G.984.3 Amendment 3.
- Displays OLT transmitted power levels for in-service loss testing between an OLT and ONU/ONT*
- Identifies the ONU/ONT by serial number and rogue or alien ONUs/ONTs in any G-PON system

Saves Time

TruePON minimizes or eliminates the time needed to configure jobs at the office prior to a work session. It lets you start testing right away, extracting all relevant information (thresholds, ONT serial number, OLT-ID)
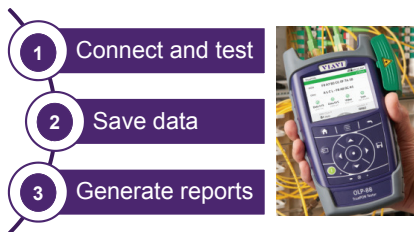

Improves Field Technician Efficiency

Absent or wrong labeling of fiber cables in splitter cabinets can lead to incorrect customer/ONT connections. TruePON ensures the ONT is connected to the right G-PON OLT by identifying the OLT-ID carried by the PON-ID at any network location*.
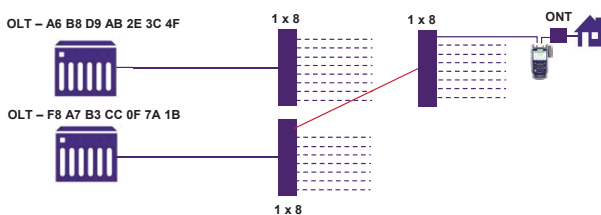

Certifies Power Levels Automatically

When verifying power levels at a customer ONT, TruePON certifies that the G-PON and XGS-PON services meet specifications by performing a fully automated power level certification. It performs downstream and upstream PON power level measurements (1270/1310/1490/1577 nm) and automatically sets pass/fail thresholds in systems with PON-ID*.
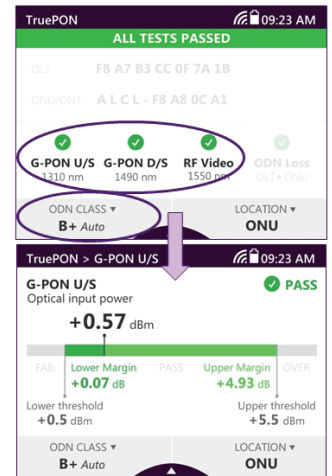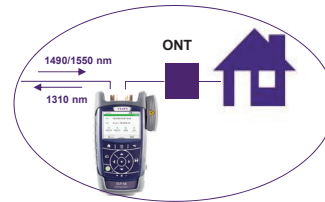
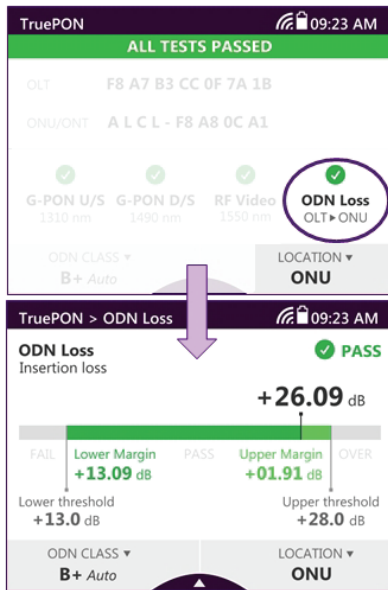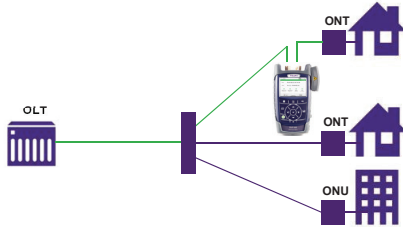## Eliminates Human Errors While Ensuring Reliable Results

Service-activation is often performed by subcontractors who are dealing with hundreds of customer turn ups. To make sure test reports are error-free and authentic, TruePON analyzes G-PON data to extract and display ONU/ONT serial numbers. It allocates ONU/ONT serial numbers according to the customer service contract, and automatically links service-activation results to the ONT/customer—ensuring the authenticity of test results.
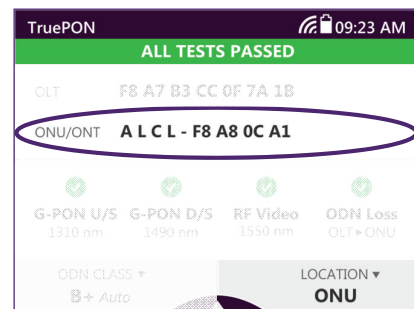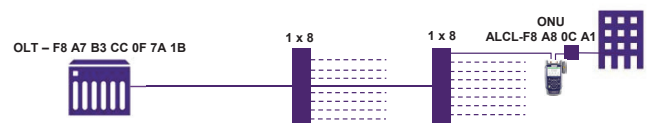
* Requires activation of PON-ID functionality in G-PON systems according to ITU-T G.984.3 Amd3.

Qualifies In-Service Fiber Plant

During the construction phase, the fiber plant is qualified; end-to-end loss testing ensures that the fiber link complies with the loss budget. However, several years later, when new customers subscribe to the FTTH services, performance may not be intact. TruePON performs real-time, in-service, end-to-end loss measurements in G-PON networks*. It is the fastest way to qualify fiber links in an already-running network.

Facilitates Fast Service Recovery

Identifying and localizing a rogue ONU that degrades or disables customer service can be difficult. OLP-88 instantaneously detects the presence of a rogue or alien ONU/ONT in G-PON networks, facilitating fast service recovery by isolating the faulty ONU/ONT for quick replacement.
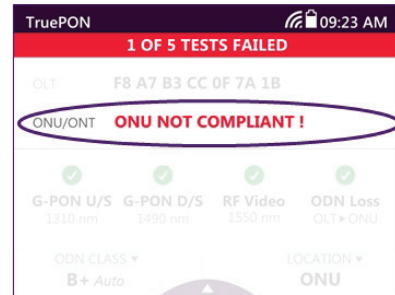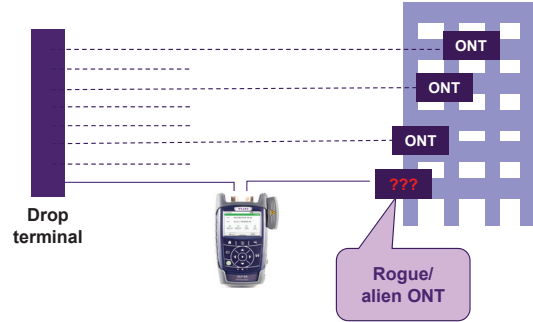
Drives Best Practices

More than 75% of fiber network troubleshooting can be attributed to connector contamination. OLP-88, optionally equipped with a built-in patch-cord microscope, helps ensure that fiber technicians follow best practices. It integrates automatic pass/fail certification for fiber connectors for optimal user workflows and behaviors that eliminate poor practices.
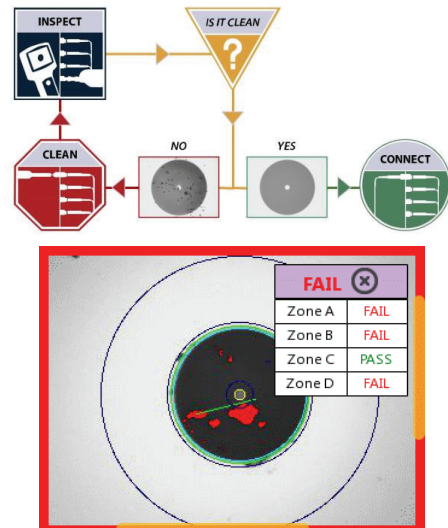
Stands Up to Harsh Field Conditions

Compact and lightweight (<1 kg), OLP-88 is a ruggedized tool for field technicians working indoors and outdoors. It runs for up to 12 hours on battery power, and is easy to operate using a simple and user-friendly color touch-screen display. OLP-88 stores up to 10,000 test results and includes an APC test interface with a switchable adapter system.

* Requires activation of PON-ID functionality in G-PON systems according to ITU-T G.984.3 Amd3.

The SmartClass Fiber Product Family

✓ **Integration** — combines inspection and testing

SmartClass Fiber tester with
P5000i analysis microscope

SmartClass Fiber tester with
patch-cord microscope

SmartClass Fiber tester with P5000i
and patch-cord microscopes

OLP-37XV2 G/XGS-PON Power Meter

- Power level measurements of
  1490/1577nm downstream signals

OLP-87 PON/ XG-PON Power Meter

- Power level measurements of
  1490/1550/1577 nm downstream
  and 1270/1310 nm upstream signals

- Fiber connector inspection

OLP-87 NG-PON2 Power Meter

- Simultaneous selective
  power level measurements of
  1596.34/1597.18/1598.04/
  1598.89 nm downstream and
  1595–1603 nm upstream signals

- Fiber connector inspection

OLP-88 TruePON Tester

- Power level measurements of
  1490/1550 nm downstream
  and 1310 nm upstream signals
  (model 2327/36), or 1490/1577
  downstream and 1270/1310
  upstream (model 2327/37)

- G-PON ONT/OLT/ONU
  identification

- Detection of alien/rogue ONU/
  ONTs in G-PON systems

- In-service loss testing in G-PON
  systems

- Fiber connector inspection

Power Meter	Version 2327/26 (1310/1490)	Version 2327/26, 2328/36 (1310/1490/1550)	Version 2327/37 (1270/1310/1490/1577)
Functionality			
B-PON(ITU-T G983.x)	■	■	■
G-PON(ITU-T G984.x)	■	■	■
E-PON(IEEE 802.3av)	■	■	■
XGS PON (ITU-T G.9807.1)			■ (option)
10G-EPON (IEEE 802.3av)			■ (option)
RF video signals 1550nm		■	

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.

Plan availability depends on product and region. Not all plans are available for each product or in every region.
To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: 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	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓

VIAVI Solutions

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