

## VIAVI

### OLP-39G and OLP-39X

SmartPocket™ V2 TruePON Testers

VIAVI Solutions OLP-39 TruePON Testers quickly, easily, and conveniently measure power levels and loss in fiber/FTTx networks, plus G/XGS-PON PON-ID data analysis (TruePON). Easy-to-use for technicians in all conditions, the SmartPocket V2 offers a dedicated and cost-optimized solution for testing and troubleshooting fiber/PON services in the field and fits perfectly in your pocket. The smart and rugged OLP-39 also includes unprecedented data storage capacity supported by result downloads to a PC.



### Key Benefits

- Ensures correct OLT port connectivity for first time install success (based on PON-ID)
  - Minimise activation delays and meet targets for installs per day
  - Reduce fault escalations and troubleshooting expenses
  - Avoid install abandonments and early life failures due to borderline installs
- Supports co-existence of G & XGS-PON on the same PON for migration to 10G services
- Ready when you need it – ultra-high reliability and high availability
  - Dependable, German design
  - Designed with outdoor environment in mind
  - Low power consumption for extended continuous use
  - Instant On – no boot time
- Easy to use
  - High-Visibility backlit graphical display with context-sensitive softkey
  - Clear pass/fail information

### Features

- Single test port connection for dual wavelength measurement
- Selective power level measurements for both G/E-PON and XGS-PON/10G-E-PON services
- TruePON PON-ID analysis and in-service insertion loss for G and XGS-PON
- Storage for > 1000 test results and PC download capability
- 3-year recalibration period

### Applications

- Measuring optical power levels and link insertion loss for both G/E-PON and XGS/10G-E-PON networks
- Analyzing PON-ID for G-PON and XGS-PON to detect OLT-ID, ODN class and loss based on ToL
- Multi-service PON/FTTH deployment and installs

## Features and Benefits

### Ultra-reliable German design

Built for rugged, outdoor use  
Still fits in your pocket!

### Improved protection cap can be fully opened

### Huge storage capacity

> 1000 test results

### Softkey flexibility

### Multiple power options (4-way)

2x Alkaline AA, 2x NiMH AA rechargeable,  
AC power adapter, USB



### New high-visibility graphical display with backlight

### Innovative low-power design exceptionally long battery life over 15 hrs. continuous operation

### USB-C interface

powering, offload of results, connection to PC

- The OLP-39G has a single mounted SC adapter providing simultaneous selective power measurement and TruePON PON-ID data analysis of G-PON (1490 nm).
- The OLP-39X has a single mounted SC adapter providing simultaneous selective power measurement and TruePON PON-ID data analysis of both G-PON (1490 nm) and XGS-PON (1577 nm) wavelengths.

## Instant On – Easy to Use – Good To Go In No Time

Instant on means SmartPocket V2 is ready as soon as you are, no waiting for an instrument to boot up, it is there the instant you need it. A high visibility back-lit display makes SmartPocket V2 usable in all lighting conditions, indoors and outdoors, and combined with the super simple user navigation means you can close out more jobs per day.

## Filtered Measurements and Single Test Port

Filtered measurements are necessary when there is more than one service wavelength present on a PON, broadband power meters are simply not suitable in such conditions as they will combine and sum the power from multiple wavelengths providing incorrect measurement results. In addition, broadband power meters do not distinguish or identify the wavelength being measured so you may have good power levels but cannot tell if it is a G/E-PON or XGS/10GE-PON service which could lead to the incorrect ONU/ONT installation or replacements leading to service activation delays.

The OLP-39 allows for simultaneous filtered measurement of both G/E-PON (1490 nm) and XGS-PON/10G-EPON (1577 nm) wavelengths with a single fiber connection, an ideal solution for networks delivering services from two different providers over the same PON in a coexistence model, and for installers who must move regularly between G/E-PON and XGS-PON/10G-EPON networks and future proofed for service providers delivering G/E-PON today and considering upgrading or migrating to XGS-PON/10G-EPON.

## TruePON Analysis and In-service Insertion Loss

Missing, incorrect or illegible labelling of ports in drop terminal cabinets or on drop fibers can lead to incorrect customer to OLT connections resulting in services that don't turn up on the first visit or time-consuming back-office work to reprovision service to the actual connected OLT port. TruePON analysis ensures that you have the right drop terminal and confirms that the drop fiber is connected back to the correct OLT port by reading the OLT serial and port numbers carried within the downstream PON-ID data. TruePON information is also attached to stored measurement results and provides an audit trail / birth certificate which documents power level(s) and OLT connectivity at time of install. TruePON analysis extracts specific data carried in the G-PON & XGS-PON PON-ID standardized by ITU-T G.984.3 Amendment 3.

In-service insertion loss measurement, utilizing G or XGS-PON PON-ID data, enables techs and installers to ensure that the end-to-end optical loss of the PON is within specification before proceeding with an installation or confirms that optical loss is out of specification and provides the information to support troubleshooting or to justify a trouble/fault ticket escalation.

## Superior Battery Life and Powering Options


Taking measurements and performing the certification of a fiber install is the final step to closing out tasks while you are still on-site. Without test equipment powered and ready to go you run the risk of missing a deadline or having to make a site re-visit to finish a job. To avoid this the SmartPocket V2 a low power consumption design for extended continuous use and supports 4-way powering with field replaceable NiMH rechargeable, off the shelf alkaline batteries, AC powering and power over USB. Meaning that you will never be short of power for long or need to wait for unit batteries to recharge.

## Low Cost of Ownership

3 years calibration interval means no extra annual charges and your equipment will meet requirements for reporting and certifying (i.e. to be in calibration)

## Test and Report Field Measurements


VIAVI Smart Reporter reporting software lets users quickly and efficiently download test results data from the power meter's memory with just a few clicks. After it is downloaded, the software reporting functions let users generate and customize professional certification reports.



Report date: Thursday, January 14, 2021

### Optictek Report - Sample 01

**Technician Information**

Company Name: Technician AG  
 Technician Name: Mr. Technician  
 Address: Technician Street  
 Postal Code: 72764  
 City: Reutlingen  
 State: Baden-Württemberg  
 Country: Germany  
 Phone: 0163438574  
 Email: technician@office.com



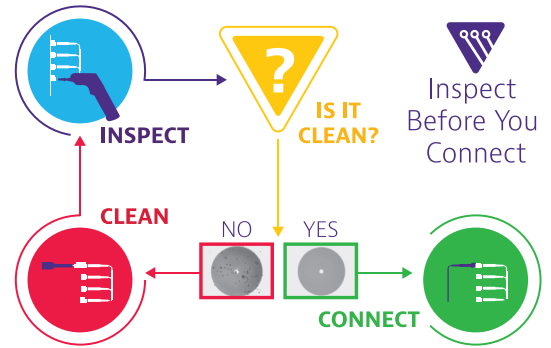
	Device Type:	OLP35SC/14	Calibration Date:	2021/JAN/12
	Serial Number:	A-0443	Software Version:	2333V01.00.00

**Measurement results**

Fiber ID	λ [nm]	Power [dBm]	Power [µWatt]	Power [dB]	Reference [dBm]
2021-01-14T15:42:46	1310	-20.52			
2021-01-14T15:43:46	1310	-20.82			
2021-01-14T15:43:58	1310		11.22		
2021-01-14T15:45:01	1490			-19.80	0.00
Room03, Fiber-001	1490			36.15	-56.37
Room03, Fiber-002	1550	-22.86			
Room03, Fiber-003	1550	-23.09			

## Inspect Before You Connect (IBYC)

Contamination is the number 1 reason for troubleshooting optical networks. Proactive inspection and cleaning of fiber connectors can prevent poor signal performance, equipment damage, and network downtime.



## VIAMI Care Support Plans


Increase your productivity for up to 5 years with optional VIAMI 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 VIAMI Care Support Plan options are available for this product in your region, contact [sales@butlertech.ie](mailto:sales@butlertech.ie)

### 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	✓	✓	✓	✓*	✓	✓	✓



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