

## SELECTIVE OPTICAL POWER METER FOR FTTX-xPON

The **PROLITE-67** is an instrument to measure **simultaneously and in a selective way** the three wavelengths used in fiberoptics. Thanks to this feature, you can certify any installation according to the new telecommunications policy.

Connecting the fibre cable that comes from the distribution centre to the OLT plug and the fibre cable that goes to the user to the ONT plug, it takes measures without interrupting the service.

It has a Visual Fault Locator, which emits a visible laser light (continuous or intermittent) that allows the user to locate cuts or breaks, identify fibres, etc.



**selective  
filter**

ATTENUATION TEST			
$\lambda = 1310 \text{ nm}$	-0.1	ATT	dB ✓
$\lambda = 1490 \text{ nm}$	-0.1	ATT	dB ✓
$\lambda = 1550 \text{ nm}$	-0.0	ATT	dB ✓

*Función Test de atenuación ICT*

OPTICAL LOSS TEST SET			
1310 nm	-0.4 dBm	+0.1 dB	-0.4 dBm
PASS			THR: 00
1490 nm	-0.1 dBm	+0.1 dB	-0.0 dBm
PASS			THR: 01
1550 nm	-0.3 dBm	+0.0 dB	-0.2 dBm
HIGH			THR: 02

*Función Test de atenuación OLTS*

xPON POWER METER			
UP	1310 nm	DWN1	1490nm
	-1.8 dBm		-14.0 dBm
			THR: 01 ✓
		DWN2	1550nm
			-50.0 dBm
			THR: 02 ↓
			THR: 00 ONT... ✓

*Función Activación del servicio*

### ✓ ATTENUATION TEST and OLTS functions

They allow the user to certify fiber-optic installations according to current regulations. In combination with a triple laser source (**PROLITE-105**) they take individualized measurements for three wavelengths (1310, 1490 and 1550 nm) and displays them simultaneously on screen.

### ✓ LOSSES function

It measures insertion losses defining a reference value.

### ✓ LOGGER function

It stores up to 500 acquisitions per function. Measures of each wavelength and all related data are saved. Later they can be checked or transferred to a PC.

### ✓ POWER METER function

This feature allows you to measure optical power at wavelengths corresponding to networks RFoG or xPON. The instrument is connected in "pass-through" mode, that is, it measures simultaneously the Upstream and Downstream signal power **without interrupting the service**.

### ✓ USB to PC connection

The **PROLITE-67** has an USB plug to connect to the PC and obtain reports, print measures and upgrade the firmware.

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SPECIFICATIONS	PROLITE-67
<b>Bandwidth</b> OLT/OPM input  ONT (upstream channel) input ONT/OPM-OLT insertion loss Polarization dependent loss ONT, OLT connectors Internal Fibre optic Dynamic Range ONT/OPM input OLT (Burst) input Accuracy Modulation	1310 nm 1490 nm 1550 nm 1100 - 1700 nm < 1.2 dB < 0.2 dB SC/APC 9/125 µm  -50 dBm at 20 dBm -3 dBm at 20 dBm ± 0.5 dB <sup>1</sup> Automatic detection at 230 Hz / 1 kHz / 2 kHz / 3 kHz
<b>VISUAL FAULT LOCATOR</b> LASER type Wavelength Optical Power Modulation Connector	FP 650 nm -2 dBm (monomode fibre / class 2) 1 Hz / 50% Universal Receptacle 2.5 mm
<b>USB INTERFACE</b>	Type-B Mini USB female connector. For data transferring, threshold values editing and firmware updating
<b>ALIMENTATION</b> Battery Low Battery Indicator Operating time Battery Charging External Voltage Consumption Mains Adapter	7.4 V Li Ion battery Graphic indicator on screen Approx. 10 h By fast internal charger  12 V DC 13 W From 90 V to 250 V, 50-60 Hz (Included)
<b>OPERATING ENVIRONMENTAL CONDITIONS</b> Altitude Temperature range Max. relative humidity	Up to 2.000 m From 5 °C to 40 °C 80 % (up to 31 °C), decreasing lineally up to 50% at 40 °C
<b>MECHANICAL FEATURES</b> Dimensions Weight	W. 180 x H. 95 x D. 50 mm 459 g. (battery and safety case included)
<b>INCLUDED ACCESORIES</b>	Mains Adapter 90 - 250 V AC, Feeder cable car, Mains cord CEE-7, Data Transfer Cable USB to PC, Cable USB(A)M-MiniUSB (B) M, CD-ROM PROLITE-67, User's Manual
<b>OPTIONAL ACCESSORIES</b>	1.25 - 2.5 mm VFL adapter, Transport suitcase

<sup>1</sup> OLT input: 1310 nm, 1490 nm, 1550 nm (-10 dBm)  
 ONT input: 1310 nm / 1600 nm (> -28 dBm)