

## FTTH TESTER & OPM



The **PROLITE-65** is a tool to install, maintain and analyse general fiber optic systems, and particularly FTTx-GPON systems.

Plugging the fibre cable from the distribution centre to the OLT input connector and the cable from the user to the ONT input connector, allows performing measurements without interrupting the optic fibre service.

The **PROLITE-65** has an USB output connector to connect it to a computer. In this way you can obtain reports or update firmware.

ATTENUATION TEST		
$\lambda = 1310 \text{ nm}$	+0.1	ATT dB
$\lambda = 1490 \text{ nm}$	+0.0	ATT dB
$\lambda = 1550 \text{ nm}$	+0.3	ATT dB

Attenuation test function

OPTICAL LOSS TEST SET			
1310 nm	-2.1 dBm	-1.3 dB	-0.8 dBm
HIGH			THR: 06
1490 nm	-1.9 dBm	-1.1 dB	-0.8 dBm
PASS			THR: 00
1550 nm	-1.3 dBm	-0.6 dB	-0.7 dBm
PASS			THR: 07

Optical loss test set function

RFoG POWER METER			
UP	1310 nm	DOWN	1550 nm
LOW		LOW	
↓	-32.0 dBm	↓	-50.0 dBm
THR: 06	TH1	THR: 07	TH2

Power meter function

### ✓ ATTENUATION TEST and OPTICAL LOSS TEST SET functions

With a triple source laser (**PROLITE-105**), performs individualized measurements for the three wavelengths used in fibre (1310, 1490 and 1550 nm) and displays them simultaneously on screen.

### ✓ LOSSES function

Allows measuring insertion losses, defining a reference value.

### ✓ VISUAL FAULT LOCATOR module

It generates a visible laser beam (continuous or pulses) that allows you to find cuts or breaks, identify fibres, etc.

### ✓ LOGGER function

Stores up to 99 measurements per function. In each data acquisition is stored each wavelength measure and its related data. It can be reviewed later or, transferred to a PC.

### ✓ POWER METER function

This function allows you to measure optical power at xPON or RFoG network wavelengths. In this way, the instrument connects in "pass-through" mode, that is, **without interrupting the service**, allowing to measure simultaneously Upstream and Downstream power signal.

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SPECIFICATIONS	PROLITE-65
Operating Wavelength Range Insertion Loss (ONT/OPM-OLT) Pérdidas en función de la polarización Connectors ONT, OLT Internal Fibre optic Dynamic Range ONT/OPM input OLT (Burst) input Accuracy	1100 nm - 1700 nm < 1.2 dB < 0.2 dB SC/APC 9/125 µm  -32 dBm at 20 dBm -50 dBm at 20 dBm ± 1 dB (Pow. ONT > -28 dBm)
<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>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 ACCESSORIES</b>	Mains supply 90-250 V AC, Feeder cable car, Mains cord CEE-7, Data Transfer Cable USB to PC, Cable USB(A)M-MiniUSB (B) M, Wrist Strap, CD-ROM PROLITE-65, User's Manual
<b>OPTIONAL ACCESSORIES</b>	Transport suitcase