

## 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 |
| HIGH                  |          | THR: 06 |
| 1490 nm               | -1.9 dBm | -1.1 dB |
| PASS                  |          | THR: 00 |
| 1550 nm               | -1.3 dBm | -0.6 dB |
| 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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| <b>SPECIFICATIONS</b>                                                                                                                                                                                                  | <b>PROLITE-65</b>                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Wavelength Range<br>Insertion Loss (ONT/OPM-OLT)<br>Pérdidas en función de la polarización<br>Connectors ONT, OLT<br>Internal Fibre optic<br>Dynamic Range<br>ONT/OPM input<br>OLT (Burst) input<br>Accuracy | 1100 nm - 1700 nm<br>< 1.2 dB<br>< 0.2 dB<br>SC/APC<br>9/125 µm<br><br>-32 dBm at 20 dBm<br>-50 dBm at 20 dBm<br>± 1 dB (Pow. ONT > -28 dBm)                            |
| <b>VISUAL FAULT LOCATOR</b><br>LASER type<br>Wavelength<br>Optical Power<br>Modulation<br>Connector                                                                                                                    | FP<br>650 nm<br>-2 dBm (monomode fibre / class 2)<br>1 Hz / 50%<br>Universal Receptacle 2.5 mm                                                                          |
| <b>ALIMENTATION</b><br>Battery<br>Low Battery Indicator<br>Operating time<br>Battery Charging<br>External<br>Voltage<br>Consumption<br>Mains Adapter                                                                   | 7.4 V Li Ion battery<br>Graphic indicator on screen<br>Approx. 10 h<br>By fast internal charger<br><br>12 V DC<br>13 W<br>From 90 V to 250 V, 50-60 Hz (Included)       |
| <b>OPERATING ENVIRONMENTAL CONDITIONS</b><br>Altitude<br>Temperature range<br>Max. relative humidity                                                                                                                   | Up to 2,000 m<br>From 5 °C to 40 °C<br>80 % (up to 31 °C), decreasing lineally up to 50% at 40 °C                                                                       |
| <b>MECHANICAL FEATURES</b><br>Dimensions<br>Weight                                                                                                                                                                     | W. 180 x H. 95 x D. 50 mm<br>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                                                                                                                                                      |