



# PROLITE-105

## FTTH TRIPLE LASER SOURCE

The **PROLITE-105** laser light source emits light at three wavelengths that are used to transmit data through optical fibre on FTTx networks: 1310, 1490 and 1550 nm. It allows selecting easily the desired wavelength by means of direct access keys, in order to generate a modulated signal or to activate the automatic operation mode.

These light sources may be modulated with 270 Hz (1310 nm), 1 kHz (1490 nm) and 2 kHz (1550 nm). They are modulated at different frequencies to measure the attenuation of the fibre for the three wavelengths in combination with a power meter (such as **PROLITE-67** or a **PROLITE-77**). Usually this measure is required to certificate telecommunications infrastructures.



LASER light source  
PROLITE-105

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



Selective optical power meter  
PROLITE-105



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SPECIFICATIONS	PROLITE-105
Wavelengths generated Tolerance Spectral width (DFB laser) Spectral drift Output connector Output power Stability / time 1 h 8 h Stability / temperature	1310 nm, 1490 nm and 1550 nm $\pm 10$ nm a 25 °C $< 1$ nm 0.1 nm/°C typ. Tipo SC / APC 0 dBm $\pm$ 1dB on SM fibre (10 min Warmup) 0.1 dB at temperatures $\pm 1$ °C from 0 to 40 °C 0.2 dB at 25 °C 1 dB typ. From 0 °C to 40 °C (10 min Warmup)
<b>INTERNAL MODULATION</b> 1310 nm 1490 nm 1550 nm	270 Hz 1 kHz 2 kHz
<b>POWER SUPPLY</b> Battery Low Battery Indicator Battery operation time External Voltage Power Consumption Network charging adaptor	Li-Ion battery LED light indicator 25 h. approx. in SEQ mode  12 V DC 12 W From 90 V to 250 V; 50-60 Hz (included)
<b>MECHANICAL FEATURES</b> Dimensions Weight	180 mm (W) x 95 mm (H) x 50 mm (D) 500 g
<b>INCLUDED ACCESORIES</b>	Car lighter adapter, Mains adapter 90-250 V AC, Power cable CEE-7, Carrying case
<b>ACCESORIOS OPCIONALES</b>	Transport suitcase