KI 6101 SERIES

OPTICAL PON POWER METER

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- FTTX PON acceptance test
- FTTX PON fault isolation

Revision 4

The KI 6101 series Optical PON Power Meter is used for testing FTTX PON fiber optic communications systems.

Common uses include live acceptance testing during service turn-up, and fault isolation during subsequent maintenance, particularly when an ONT has failed.

It is connected in-line on a live system, and simultaneously displays the power of all 3 operational PON wavelengths, including the return signal power.

FEATURES

- Compact, rugged & light weight
- For BPON/EPON/GPON testing
- In-line testing 1310, 1490, 1550 nm
- 1310 nm Burst mode testing
- Pass/Fail/Warning display & LED indicators
- 10 thresholds set by management software
- Internal memory & download for 1000 tests
- Real-time clock for timestamp
- Calibration by management software
- Power saving design with backlight
- 12 month warranty
- 3 year calibration cycle

KINGFISHER INTERNATIONAL

CE ISO 9001

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The KI 6101 handheld in-line PON Power Meter is ideal for measuring the power in a typical live BPON/EPON/GPON FTTX communication link.

This feature rich instrument makes for easy pass/fail, results storage and reporting. Stable readings inspire user confidence.

The clear sunlight readable and backlit display is combined with simple operation, to ensure good quality testing.

Rugged construction, moisture resistance, rubber holster and connector dust caps.

Operational savings come from a 3 year re-calibration

cycle and fast & simple operation.

The meter displays dBm, W and dB. The resolution is 0.01dB. A separate reference for each λ can be stored.

Pass/Fail/Warning display and LED indication are available, and Pass/Fail value is user definable.

SPECIFICATIONS

Parameters	1310nm upstream measurement	1490nm downstream measurement	1550nm downstream measurement
Passband	1260 nm ~ 1360 nm	1480 nm ~ 1500 nm	1530 nm ~ 1570 nm
Measurement range	+10 dBm ~ -40 dBm	+10 dBm ~ -50 dBm	+20 dBm ~ -40 dBm
Max power input	+15 dBm	+15 dBm	+20 dBm
Isolation	> 40 dB (@1490/1550 nm)	> 40 dB (@1310/1550 nm)	> 40 dB (@1310/1490 nm)
Measurement accuracy			
Uncertainty		0.5 dB	
Polarization		< 0.25 dB	
Linearity		0.1 dB	
Insertion Loss		< 1.5 dB	

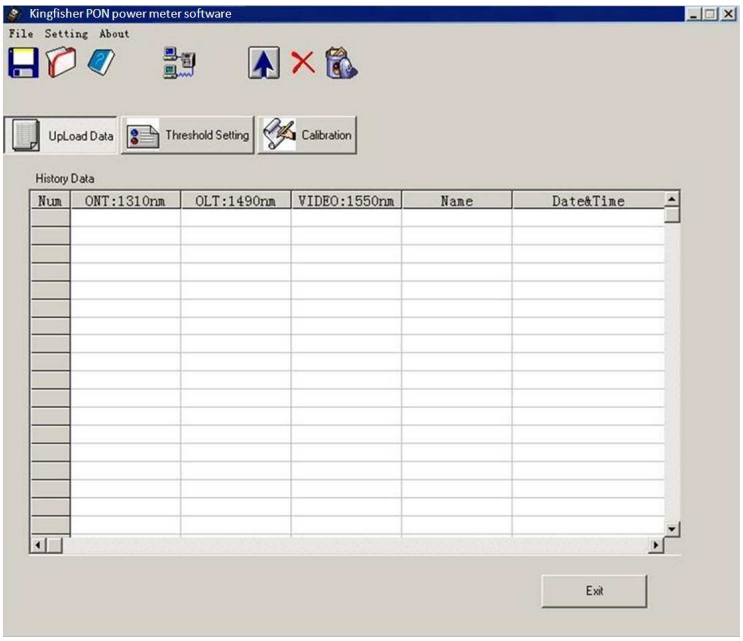
GENERAL SPECIFICATIONS

Parameters	Value
Fiber type / Connector interface	SM 9/125 µm / Fixed, select from LC, SC, FC, (APC)
Display / Backlight function	LCD (128 x 64) Sunlight Readable / YES
Show Results	dBm/W/dB, pass/fail
Display Resolution	0.01 dB
Battery type / life	Rechargeable Lithium battery / 120 hours continuous
Auto off function	Selectable auto-off
AC Adapter & Charger for Ni-MH cell with LED indicator	Charger spec: Input: 100-240v~50/60Hz 0.3 A; Output: 8.4V-0.5A
Operate / storage temperature / Relative humidity	-10 ~ +60 °C / -25 ~ +70 °C / < 95% non-condensing
Size / Weight	179 x 93 x 48 mm (7.05 x 3.66 x 1.89") / 0.5 kg (1.1 lb)
Recommended calibration interval	3 years (excluding connector wear)

Technical data is subject to change without notice as part of our program of continuous improvements.

KINGFISHER PON POWER METER SOFTWARE

- Download testing data in the meter to a PC via the USB interface
- Download/Upload 10 threshold settings to the meter
- Calibration



ORDERING INFORMATION

Description	P/N
Instrument, PON Power Meter, SC/APC	KI 6101-APC

STANDARD ACCESSORIES

Description	Quantity
Manual	1
Soft carry pouch	1
External power supply	1
Software CD	1
USB cable	1

AUTHORISED DEALER

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