

KI 6103 SERIES

OPTICAL PON POWER METER



OPTICAL COMMUNICATIONS TEST APPLICATION

- In-Line FTTX PON testing



Revision 5

FEATURES

- For BPON/EPON/GPON testing
- Pass/Fail/Warning (10 threshold sets) display
- Pass/Fail LED indicators
- Display 1310 nm upstream & 1490/1550 nm downstream
- 1310 nm Burst mode testing
- In-line testing
- Internal memory for 100 test data
- Auto shut off
- Backlight
- Large sunlight readable display
- 12 month warranty
- Up to 2 year calibration cycle
- Compact, rugged & light weight
- Low cost

The KI 6103 series Optical PON Power Meter is used for testing FTTX PON fiber optic communications systems.

It simultaneously measures and displays all PON signals—voice, data and video.

The KI 6103 pocket size in-line PON Power Meter is ideal for measuring BPON/EPON/GPON FTTX communication link. Rugged construction, moisture resistance, rubber holster and connector dust caps. Operational savings come from up to 2 year re-calibration cycle and fast & simple operation.

The meter displays dBm/dB. The resolution is 0.01dB. A separate reference for each λ can be stored. Pass/Fail/Warning indication can be displayed, and Pass/Fail values are user definable.

SPECIFICATIONS

Parameters	1310nm upstream measurement	1490nm downstream measurement	1550nm downstream measurement
Pass zone	1260 nm ~ 1360 nm	1480 nm ~ 1500 nm	1530 nm ~ 1570 nm
Measurement range	+10 dBm ~ -35 dBm	+10 dBm ~ -50 dBm	+25 dBm ~ -45 dBm
Max power input	+15 dBm	+15 dBm	+25 dBm
Isolation	> 30 dB (@1490/1550 nm)	> 30 dB (@1310/1550 nm)	> 30 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 μ m / Fixed, select from LC, SC, FC (APC)
Display / Backlight function	LCD / YES
Show Results	dBm, dB, pass/fail
Display Accuracy	0.01 dB
Battery type / life	3 AA type of alkaline or NiMH type / 50 hours
External power supply	9V, 1A DC input with LED charging indicator
Auto off function	10 minutes after last key pressed
Operate / storage temperature / Relative humidity	-0 ~ +50 °C / -40 ~ +70 °C / < 95% non-condensing
Size / Weight	190 x 95 x 45 mm (7.48 x 3.74 x 1.77") / 0.54 kg (1.19 lb)

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

ORDERING INFORMATION

Description	P/N
Instrument, PON Power Meter, APC	KI 6103-APC

STANDARD ACCESSORIES

Description	Quantity
User manual	1
Carry case with strap	1
AC adapter/charger	1

AUTHORISED DEALER



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