

KI 6503 Series

Optical DWDM Power Meter

Optical Communications Test Applications

- Wavelength Selective Power Meter for systems with DWDM channel spacing.
- Quickly determine active channels.



Revision 3

KI6503 is an easy and economical handheld DWDM Power Meter for testing multi- λ single mode fiber optic systems.

It scans and stores the absolute or relative power levels of all 48 DWDM λ in 3 seconds. Test data can be viewed in graphical or numerical form, and reference values can be stored for easy loss testing.

The instrument has good ergonomics. It features a large, sunlight readable and backlit colour display, and a well laid out and easy to use front panel.

Data Management Software enables stored test data to be downloaded to PC.

Features

- Compact, rugged & light weight
- Simple to use
- Fast measurement speed
- Scan range of 48 calibrated wavelengths
- Larger, sunlight readable, backlit colour display
- Simultaneous 9 wavelengths loss display
- Tabular and graphical display modes
- Internal memory for 300 records of 48 λ test with time stamp
- Test data transfer via USB port
- Programmable auto shut off
- External power / charging via mini USB port
- LED indicator battery charging status
- Low cost
- 1 year warranty

KI 6503 Series – Optical DWDM Power Meter

The KI 6503 handheld DWDM Optical Power Meter is ideal for scanning the optical power in DWDM band in single mode communication links.

The instrument automatically scans and stores powers of up to 48 wavelengths speedily in 3 sec. Stable readings inspire user confidence.

The new solid state measuring system is highly stable and rugged compared to older mechanical scanning technologies, resulting in overall better operation, reliability and long term cost.

Test data can be displayed in either conventional tabular or in colour-rich graphical forms.

Results are displayed in blocks of 9 λ on the clear, sunlight readable, backlit colour LCD. The excellent instrument's simple operation ensures good quality testing.

The internal memory stores up to 300 records of 48- λ test data which can be conveniently downloaded to PC via USB using the provided Data Management Software.

The instrument can be powered or charged via its USB port with an LED indicating the charging status.

The instrument features rugged construction, moisture resistance, rubber holster and connector dust cover.

OPTICAL SPECIFICATIONS

Parameters	Value
Channel wavelength/frequency (nm / THz)	1526.43 ~ 1563.86 / 196.4 ~ 191.7 (ITU-T compliant)
Number of channels	48
Channel spacing (nm / GHz)	0.8 / 100
Measurement speed (sec)	3 (for all channels)
Measurement range (dBm)	-40 ~ 10
Measurement accuracy (dB)	± 1.0 @ -30 dBm
Damaged level (dBm)	+27 (composition of 18 λ)
Fiber type	Single Mode

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

GENERAL SPECIFICATIONS

Parameters	Value
Optical connector	SC/PC
Display	2.8" Colour LCD with backlight
Display unit	dBm, dB
Display resolution	0.01 dB
Memory	300 records of 48- λ tests in internal memory
PC interface	Data transfer via USB
Battery type	Built-in rechargeable Li-Polymer Battery (3.7V, 1800mAH)
Battery life	7 hours (minimum)
Auto off function	Programmable
External power / charging	Via USB port
Operate temperature / Relative humidity	-20 ~ 55 °C / 10 ~ 90% @ 0 ~ 40°C
Size / Weight	77.9 x 154.9 x 33.5 mm (3.07 x 6.10 x 1.32 ") / 0.33 kg (0.73 lb.)
Warranty	1 year

ORDERING INFORMATION

Description	P/N
Instrument, DWDM Power Meter 48 Channels, SC/PC	KI 6503

STANDARD ACCESSORIES

Description	Quantity
Instrument user manual	1
USB cable	1
CD (Data management software & user manual)	1
Carry strap	1
Calibration certificate	1
QA certificate	1

AUTHORIZED DEALER



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