

KI 6501 Series

Optical CWDM Power Meter

Optical Communications Test Applications

- Wavelength Selective Power Meter for systems with CWDM channel spacing.
- Quickly determine active channels.
- Diverse FTTx systems, RFoG etc.



Revision 7

KI6501 is an easy and economical handheld CWDM Power Meter for testing multi- λ single mode fiber optic systems.

It scans and stores the absolute or relative power levels of all 18 CWDM λ in 0.8 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 18 calibrated wavelengths
- Larger, sunlight readable, backlit colour display
- Simultaneous 9 wavelengths loss display
- Tabular and graphical display modes
- Internal memory for 1000 test records
- 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 6501 Series – Optical CWDM Power Meter

The KI 6501 Handheld CWDM Optical Power Meter is ideal for scanning the optical power in each CWDM band in single mode communication links.

The instrument automatically scans and stores powers of up to 18 wavelengths speedily in < 0.8 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 1,000 test data records 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 |
|---------------------------|--|
| Calibrated λ (nm) | 1270,1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470,1490, 1510, 1530, 1550, 1570, 1590, 1610 |
| Number of channels | 18 |
| Channel spacing (nm) | 20 |
| Measurement speed (sec) | < 0.8 |
| Measurement range (dBm) | -40 ~ 10 |
| Measurement accuracy (dB) | $\pm 0.5^1$ |
| Damaged level (dBm) | +27 (composition of 18 λ) |
| Fiber type | Single Mode |

Note 1: At -20dBm, -10 ~ 50 °C, ± 0.3 nm center wavelength, 9.5/125 fiber.

GENERAL SPECIFICATIONS

| Parameters | Value |
|---------------------------------------|---|
| Optical connector | SC/PC |
| Display | 2.8" Color LCD with backlight |
| Display unit | dBm, dB |
| Display resolution | 0.01 dB |
| Memory | 1000 records of 18- 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 |
| Auto off function | Programmable (5~600 min after last key pressed) |
| Charging time | 180 min |
| Flat battery performance | Unit works when charging a flat battery |
| External power / charging | Via USB port |
| Operate / Storage / Relative humidity | -10~50 °C / -20~55 °C / ~90% @ 0~40°C |
| Size / Weight | 155 x 78 x 34 mm (6.10 x 3.07 x 1.34") / 0.35 kg (0.77 lb.) |
| Warranty | 1 year |

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

ORDERING INFORMATION

| Description | P/N |
|---|---------|
| Instrument, Optical CWDM Power Meter, SC/PC | KI 6501 |

Please enquire for nonstandard optical connectors and interface such as FC, LC, ST, APC

STANDARD ACCESSORIES

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



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