# KI 6512

## 100GBASE LR4/ER4 Selective Power Meter


### Optical Communications Test Applications

- λ Selective Power Meter for 100GBASE LR4 / ER4 systems
- Additional power meter for 850 / 1310 / 1550 nm MM/SM

*Revision 3*

KI6512 is an easy and economical handheld Wavelength Selective Power Meter for 100GBASE LR4 / ER4 systems.

It scans and stores the absolute or relative power levels of all 4 LR4 / ER4 λ in less than 0.8 seconds. These results can be viewed in graphical or numerical form, and stored for later recall or transfer.

It also has a basic dB / dBm power meter for 850, 1310 and 1550 nm on multimode and single mode fiber.

The small instrument has good ergonomics, with a large, sunlight readable and backlit color 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
- Auto display all 4 LR4 / ER4 λ simultaneously
- AUX port for 850, 1310, 1550 nm MM / SM
- Backlit, sunlight readable color display
- Numeric or 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
- 1 year warranty
- Low cost

# KI 6512 – 100GBASE LR4/ER4 Selective Power Meter

The KI 6512 is a handheld power meter ideal for scanning optical power in 100GBASE-LR4 & 100GBASE-ER4 optical systems. The instrument automatically scans and stores powers of all the 4 wavelengths in the system speedily in < 0.8 sec. Stable readings inspire user confidence.

The additional AUX port on the unit also measures power or insertion loss at 850, 1310, 1550 nm on multimode or single mode fiber systems. This port is not wavelength selective and does not have data storage.

The 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 color-rich graphical forms.

Results for all 4 LR4/ER4 wavelengths can be displayed simultaneously on the clear, sunlight readable, backlit color 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 user can set time and date which are stored with results.

The user can set a pass / fail threshold value which shows on the graphical display.

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

## SPECIFICATIONS

| Parameters | Value | | |
|---|---|---|---|
| LR4/ER4 port | | | |
| | Min | Center | Max |
| Wavelength (nm) | 1294.53 | 1295.56 | 1296.59 |
| | 1299.02 | 1300.05 | 1301.09 |
| | 1303.54 | 1304.58 | 1305.63 |
| | 1308.09 | 1309.14 | 1310.19 |
| Fiber type | 9/125 um SMF | | |
| Damage level (dBm) | +27 | | |
| AUX port | | | |
| Wavelengths (nm) | 850, 1310, 1550 | | |
| Fiber type | 50/125 um MMF for 850 nm, 9/125 um SMF for 1310 & 1550 nm | | |
| Damage level (dBm) | +14.5 | | |
| Common for both LR4/ER4 & AUX ports | | | |
| Measurement range (dBm) | +11 to -40 | | |
| Accuracy (dB) | ±1 [1] | | |
| Resolution (dB) | ±0.01 | | |
| Measurement speed (second) | < 0.8 | | |
| Detector type | InGaAs | | |

Note 1: At -40 ~ +10 dBm, (1295.56, 1300.05, 1304.58, 1309.14nm) ±1.03nm, (1310, 1550nm) ±50nm.

## GENERAL SPECIFICATIONS

| Parameters | Value |
|---|---|
| Optical connector/interface | LC/PC (LR4/ER port), LC/PC (AUX port) |
| Display | 2.8" Color LCD, sun light readable, backlit |
| Display unit | dBm, dB |
| Display resolution | 0.01 dB |
| Memory (only for LR4/ER4 data) | 1,000 4λ test with time stamp 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 |
| Recommended calibration cycle | 3-year |
| Operate / Storage / Relative humidity | -10 ~ 50 °C / -20 ~ 55 °C / 10 ~ 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.) |

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

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

## ORDERING INFORMATION

| Description | Part number |
|---|---|
| Instrument, Power Meter 100GBASE LAN-WDM LR4/ER4, LC/PC | KI 6512 |

## STANDARD ACCESSORIES

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

AUTHORIZED DEALER

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