

Premium Optical Loss Test Set

The KI 7300A series is a single directional loss test set. Link loss displays in real time, at multiple wavelengths. Bi-directional testing is supported by PC software.

Featuring zero warm up, high speed and high accuracy, results can either be stored in internal memory, or inserted directly into a customized acceptance report on a PC, with one mouse click.

It is an ideal tool for high performance single mode or multimode fiber optic cable testing.

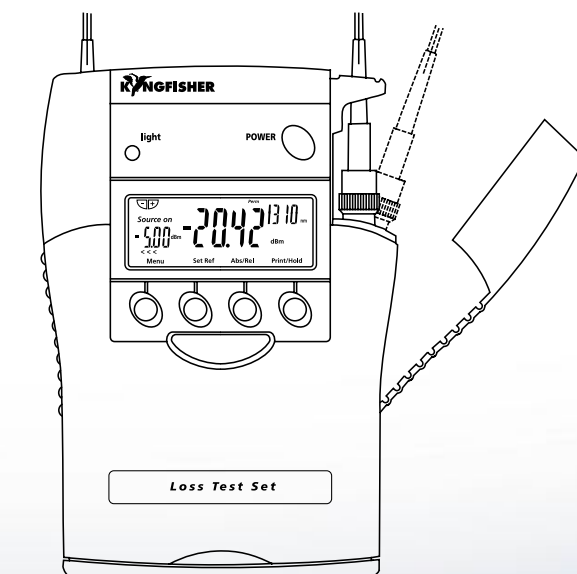
Detector & calibration options cover a wide range of connector types, fiber types and CWDM wavelengths from +27 to -70 dBm.

Optical Communications Test Applications

Construction & commissioning

Standards laboratories

High throughput quality assurance



Features

Zero warm up & high accuracy

Autotest compatibility with other instruments

3 year warranty & calibration cycle

Interchangeable connectors

Long battery life

Large memory

Flexible real-time PC software

Up to 4 laser sources

Compact & light weight



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KI 7300A SERIES V20040729

This is a fast and easy to use one way loss tester. From start of test to acceptance report takes 2 seconds and one mouse click.

Autotest is compatible with all other Autotest instruments, which simplifies training and operational issues.

The instrument provides instant accurate and traceable measurements, with zero warm up and a very high stability light source.

High availability is the result of zero warm up, 190 hour battery

life, patented interchangeable optical connectors, 3 year calibration cycle and superior reliability.

Interchangeable connectors include small form factor LC and MU styles, in addition to most other styles.

Flexible KITS™ PC software is a real-time measurement, Pass / Fail assessment and reporting solution. Easily customized for any language and reporting format, it also supports memory download, data logging, label printing and enterprise level data management.

Power Meter

| Detector type | Calibration λ nm | Response λ nm | Power range dBm | Autotest sensitivity dBm | Mid range linearity ¹ dB | Calibration Accuracy % | Polarisation Sensitivity dB | Total Uncertainty ³ dB |
|---------------|---|--------------------------|--------------------------|--------------------------|-------------------------------------|------------------------|-----------------------------|-----------------------------------|
| InGaAs | 820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650 | 800 - 1700 980 - 1660 | +5 to -60 +5 to -70 | -40 -50 | 0.02 | 2% ² | < 0.005 | 0.3 |
| H3 (InGaAs) | 850 1300, 1310, 1550, 1610, 1625 | 800 - 1700 980 - 1660 | +27 to -40 +27 to -50 | -20 -30 | 0.02 | 2% | < 0.005 | 0.35 |
| typical | | | | | typical | | typical | max |

Note 1: Mid range linearity excludes top 3 dB and bottom 10 dB of range.

Note 2: Calibration condition: non coherent light, -35±5 dBm, 23±5 °C, ±1 nm, 10±3 nm FWHM, PC ceramic connector, 62.5µm fiber.

Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber type up to 100 µm core diameter.

Source

| | 1310/1550 nm | Other lasers | Comments |
|---------------------------------|---------------------------------------|-------------------|---------------------------------------|
| 2 λ source power, dBm | -7 | -7 | ± 1 dB |
| 3 or 4 λ power dBm | -10 | -10 | |
| Short term stability, dB | 0.03 | 0.05 ⁴ | 15 min, max no warm up ± Δ 3°C |
| Stability, over temp, dB | 0.2 | 0.2 | Max, over temperature |
| λ initial tolerance, nm | 20 | 6.5 | At 25 °C |
| λ width, nm | 3 | < 1 | FWHM, typical |
| λ nm/°C | 0.4 | 0.1 | typical |
| Modulation | 270 Hz, 1, 2 KHz, ± 2 % | | |
| Laser output | Adjustable over 6 dB in 0.01 dB steps | | |

Note 4: For laser, ORL < -25 dB.

| | |
|--------------------|---|
| Battery life | 360 hrs laser off / 190 hrs Laser modulated |
| Size | 190 x 130 x 70 mm, 7.9" x 5.4 x 2.9" |
| Weight | 500 gm, 1.1 lb. Shipping 2 Kg, 4.4 lb |
| Operating/ Storage | -15 to 55 °C / -25 to 70 °C |
| Hidden keypad | For setting advanced functions |
| Case | Polycarbonate, 1 metre drop tested |
| RS232 | 3.5 mm jack connector, default baud 9.6 K |
| Memory | 845 dual λ loss testing results |
| Power | 2 alkaline C cells (7.6 A/Hr) or external 9 V DC with 2.5 mm +ve pin. Selectable auto-off, low battery indicator, backlit display |
| Tone detection | 150 - 9999 Hz 1 % |
| Max / min | Recording feature for stability testing |
| Damage level | > 5 dB above max reading H3: > 3 dB above max reading for 2 minutes |

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser product, complies IEC60825-1 and 21CFR1040.10.

Ordering Information

Please enquire for other combinations

| Instrument | p/n |
|--|---------------------|
| 1310/1550 nm laser PC, InGaAs Meter | KI 7303A-InGaAs |
| 1310/1550 nm laser APC, InGaAs Meter | KI 7303A-InGaAs-APC |
| 1310/1550 nm laser PC, H3 meter | KI 7303-H3 |
| 1310/1550 nm laser APC, H3 meter | KI 7303-H3-APC |
| 1310/1490/1550 laser PC, InGaAs Meter | KI7307A-InGaAs |
| 1310/1490/1550 nm laser APC, InGaAs Meter | KI7307A-InGaAs-APC |
| 1310/1550/1625 nm laser PC, H3 Meter | KI73010-H3 |
| 1310/1550/1625 nm laser APC, H3 Meter | KI73010-H3-APC |
| 1310/1390/1550/1610 nm laser PC, InGaAs Meter | KI7308A-InGaAs |
| 1310/1390/1550/1610 nm laser APC, InGaAs Meter | KI7308A-InGaAs-APC |
| 1310/1490/1550/1610 nm laser PC, InGaAs Meter | KI7309A-InGaAs |
| 1310/1490/1550/1610 nm laser APC, InGaAs Meter | KI7309A-InGaAs-APC |

Standard Accessories

ST, FC, SC optical connector adaptors, KITS™ software and cable, manual, batteries, AA-to-C size battery converter, NATA traceable calibration certificates, carry strap or tilt bail, leather pouch & protective holster.

Interchangeable Connector Options

This instrument is supplied with metal-free optical interchangeable connector adaptors. The ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC. You can order any number of connector adaptors. Order quantity two of each type.

Optional Interchangeable Connector Options

| | | | |
|------------------|---------|-----------------|--------|
| E2000/LSH, green | OPT060G | MU | OPT080 |
| E2000/LSH | OPT060 | 2.5mm universal | OPT081 |
| LSA / DIN47256 | OPT071 | SMA 905/906 | OPT081 |
| LC / F3000 | OPT072 | Metal free | OPT090 |

To order metal free connector, specify: connector style + OPT090.

Optional Accessories

| | |
|------------------------------|---------|
| Carry case for 2 instruments | OPT153 |
| Power pack, 90-240V IEC | OPT103B |
| USB-RS232 converter | OPT188 |



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