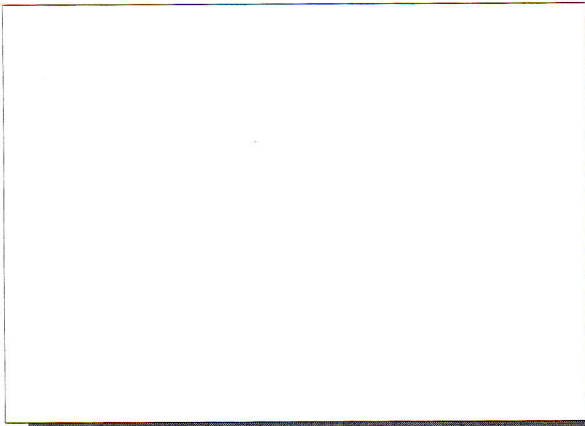


HANDHELD LASER LIGHT SOURCE



FEATURES

- * Unique temperature controlled handheld laser source
- * Highly stable output
- * Optically safe
- * Internal cladding mode stripper
- * High reliability
- * Internal 270 Hz modulation
- * DC-300 MHz analogue modulation
- * 16 hour battery running time
- * Convenient operation
- * Wide choice of options

APPLICATION

- * Precision optical loss testing
- * Electro-optic converter
- * Fibre bandwidth testing
- * Receiver testing
- * Optical cable testing and installation
- * Component testing
- * Environmental / life testing

The KI 2000 series laser light source brings a new level of price, performance and convenience to fibre optic loss testing.

You get the features of the best full sized bench instruments in a compact package, combined with outstanding optical stability.

SPECIFICATIONS

Size/Weight 165/75/29 mm., approximately 500 gm.

Output wavelength 850, 1300, 1550nm

Output power -6 dBm, variable by 1dB from panel pot
-10 dBm, fixed
270 Hz chopped, at -10 dBm.
(sync output 50mv/50ohm from SMA connector)

External modulation DC - 300 MHz, via SMA input
50 ohm, approximately 0.5v, +5 absolute maximum
-5 to 45C
-30 to 70C

Operating temperature See graph for typical response. Stability is typically
Storage temperature limited by connector performance.
Absolute limits: +-0.5 dB, 0-45 C
+-0.05 dB over 8 hours at +-1 C

Output connector FC, D4 Biconic, Diamond, Pigtail
Other connectors available as options

Power source Internal batteries, typically 16 hours running, 16 hours
re-charge. Battery low indicator.
7 - 16 V DC/AC supply, battery adaptor etc.

Accessories Rubber holster
Carry case
Mains adaptor
SMA/BNC adaptor
Instruction manual

Ordering information K12085M - 850nm multimode
K12130M - 1300nm multimode
K12130S - 1300nm singlemode
K12155S - 1550nm singlemode

Please specify connector type, mains voltage.
Variation in most specifications can be accommodated.
Please consult with Kingfisher International.

KINGFISHER INTERNATIONAL

14 Excalibur Avenue
Glen Waverley
Victoria 3150
Australia

(Telex: AA 30625 AITN ME 3080)
Telephone: (03) 233 5998
Facsimile: (03) 887 9096

YOUR LOCAL AGENT IS:

KI 2000 SERIES

Superb precision performance is complemented by many useful features, solid construction and ease of use.

Whichever area of fibre optics you are in, from research to service, the KI 2000 will provide excellent and cost effective performance.

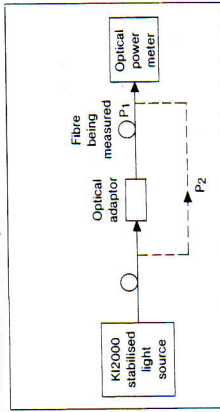
These instruments are available with a very wide range of options for non standard applications, eg. DFB lasers high output powers, different wavelengths, very fast modulation etc. Please enquire.

Other KINGFISHER INTERNATIONAL products:

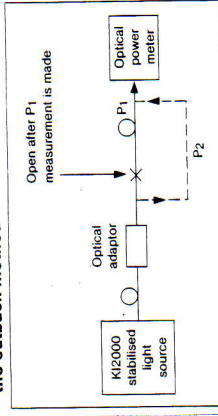
- Temperature stabilised LED sources
- Inexpensive laser source, 1300 nm
- Dual wavelength laser source in carry case
- Full duplex talk sets in carry case, operable to 40 dB loss on single mode fibre.

APPLICATIONS

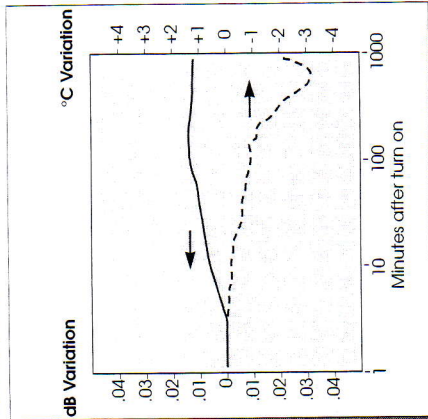
- Measurement of optical connection loss



- Measurement of optical loss by the cutback method



TYPICAL ROOM TEMPERATURE STABILITY TEST



Sample optical output waveform of KI21305 Laser Light Source used in an optical pulse application. Rise time of the electric pulse generator was 1.4 nsec.

MAJOR FEATURES

Compact and highly accurate

For field portable convenience-weighs only 500 grams and size only 165/75/29 mm. Excellent stability ensured by the temperature controlled laser.

Fast stabilisation for speedy measurement

Turn it on and see the output stabilise in a few seconds- no waiting around with the KI2000 Series.

Built-in cladding mode stripper

Less extra equipment needed for accurate loss measurement on singlemode fibres, and improved accuracy every time in normal use.

Long battery running life

Typically 16 hours running time with battery low indication. A choice of power sources too when it comes to re-charging the built-in nicads, including 12V vehicle systems.

Broad laser modulation capability

DC-300MHz analogue modulation lets this unit act as an efficient electro-optic converter for a variety of uses. Connect to your signal generator, ATE system via a programmable voltage source, or conduct systems testing.

Internal 270Hz chopping

When you need that extra performance for low level light measurement with lock-in amplifiers, the KI2000 provides a built-in light chopper for your convenience with the same output level stability as in other modes.

Light output adjustment

The output level can be adjusted from the front panel for convenient minor adjustment to your measurement set-up, or to calibrate the unit for your particular needs.

Convenient operation

Straight forward push-button operation with LED indicators. A 20 minute timer mode can be selected for automatic turn-off.

Quality construction and modest price

A metal case, quality internal construction and advanced design add up to reliability and low cost of ownership. A rubber holster provides shock protection. All optical connectors are replaceable, without disturbing the laser. All lasers are premium quality devices.

Safety

Class I laser product- the output is classified as eyesafe when viewed unaided by the eye. Therefore, relatively unskilled personnel may use these instruments. A master keyswitch prevents unauthorised use.

Service

Kingfisher International is committed to providing the highest possible quality of support to our customers, and is able to provide repair turn-around of a few days in most circumstances.

• This equipment closely conforms to Bell Technical Reference No. TR-15Y-000198-Optical Loss Test Equipment.