

SL Series Product information

Stabilized HeNe lasers as measuring standard for laser-optical measuring technology and as frequency standard

Frequency and amplitude stabilized lasers

SL SERIES

Our stabilized HeNe lasers with a wavelength of 632.8 nm are used as native, highstable reference measure. The stabilization technique provides high frequency and amplitude stabilities, low optical feedback and extremely rapid warm-up.

Optical modules may be directly, concentrically installed on its compactly designed head using the internally threaded mount provided. Fiberoptic couplers for coupling it to single- or multimode optical fibres are available.

Options:

- Certificate with absolute frequency measured in comparison with an iodine-stabilized HeNe laser
- Marking indicating the beam's plane of polarization
- Fiber coupler installation and alignment
- Extended or adjustable operating temperature range
- Installation and alignment of Faraday isolator in order to eliminate back reflections

Ideal for

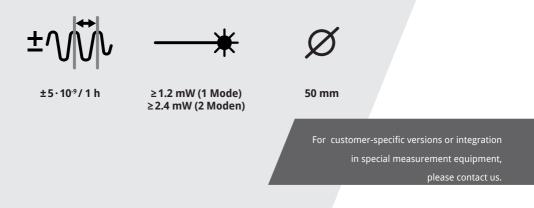
- Light sources in laseroptical measuring technology
- Frequency standard

- Science/research
- OEM applications



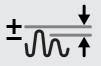
Stabilized HeNe Laser model SL 02

- compact design with a plug-in power supply
- available with one or two polarized longitudinal modes



Stabilized HeNe Laser model SL 04

- amplitude or frequency stabilization as operating modes
- standardized diameter of laser tube



±√₩





<0.3% / 24 h

±2.10^{-9/}1 h

≤1.2 mW

45 mm

PRECISION & QUALITY MADE IN GERMANY

For customer-specific versions, OEM applications or integration in special measurement stations, please contact us.

We will be happy to personally assist you in finding solutions for your measuring tasks.

SIOS Meßtechnik GmbH Am Vogelherd 46 98693 Ilmenau / Germany

contact@sios.de

www.sios-de.com www.laserinterferometer.com