



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

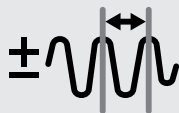
- Light sources in laseroptical measuring technology
- Science/research
- Frequency standard
- OEM applications



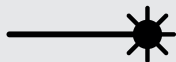
Stabilized HeNe lasers

Stabilized HeNe Laser model SL 02

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



$\pm 5 \cdot 10^{-9} / 1 \text{ h}$



$\geq 1.2 \text{ mW (1 Mode)}$
 $\geq 2.4 \text{ mW (2 Moden)}$

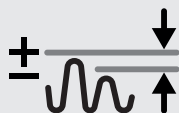


50 mm

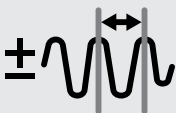
For customer-specific versions or integration
in special measurement equipment,
please contact us.

Stabilized HeNe Laser model SL 04

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



$< 0.3\% / 24 \text{ h}$



$\pm 2 \cdot 10^{-9} / 1 \text{ h}$



$\leq 1.2 \text{ mW}$



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.

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