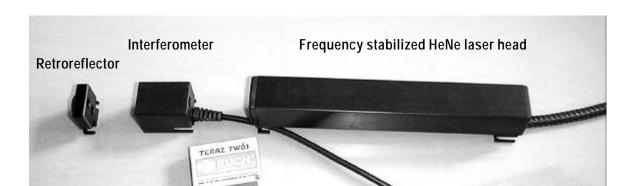
Laser measurement system LN 10 www.feanor.com



Features

- small size and low weight
- easy transportable
- simple operation, easy beam alignment
- high resolution
- high precision
- very low price

Applications

- positioning of CNC and CMM
- machine geometry inspection
- refitting of measurements devices
- positioning of stages
- ball screw inspection
- servicing application

Laser measurement system LN 10 The most compact laser liner on the market.

TECHNICAL DATA

Laser head

- laser type

- preheating time

- wavelength (vacuum)

- wavelength accuracy

- short time stability

- output power

- beam diameter

- distance between out- and ingoing beam

- laser head dimensions

- net weight

- safety class

Two mode HeNe laser with frequency

stabilization

approx. 10 min

632,991354 nm

 ± 0.08 ppm

 $\pm 0,001 \text{ ppm } (1 \text{ hour})$

 $400 \, \mu W$

 $8 \, \mathrm{mm}$

12.7 mm

240x30x30 mm

300 g

Class 2 Laser product

according to PN-91/T-06700

System work conditions

- temperature range $$10-35\ ^{\circ}\text{C}$$ - humidity range $$10-90\ \%$

Power supply

- voltage 230 VAC, 50 Hz

35 W (during preheating)

10 W (work)

PC interface

- type RS 232C, USB (on demand)

- data rate 9600 bps (RS 232)

Environment compensation

Wavelength compensation

- manual Environments parameters entered from

keyboard

- automatic With the use of the environment station.

Parameters of the environment compensation

- air temperature Range 0 – 40 °C, accuracy 0.1 °C - pressure Range 940 – 1060 hPa, accuracy 1 hPa

- humidity Range 10 – 90 %, accuracy 5 %

- time constants Temperature 3 s, pressure 2s, humidity 5 s

- dimension $\phi 50x55 \text{ mm}$

- net weight 100 g

Material temperature compensation

- manual Temperature of material entered from

keyboard

- automatic 3 temperature sensorsors, calibrated Pt-1000

klass 1/3 B, in oil resistant casing.

- time constant 6 s
- net weight 50 g

Measuring parameters

Measurement	Range	Resolution	Accuracy
Distance	0 - 30 m	1 nm	1,5 µm/m
Velocity	0-1m/s	0.25 μm/s	0,1 %