

LETI-30 Thermal Expansion Experiment Unit



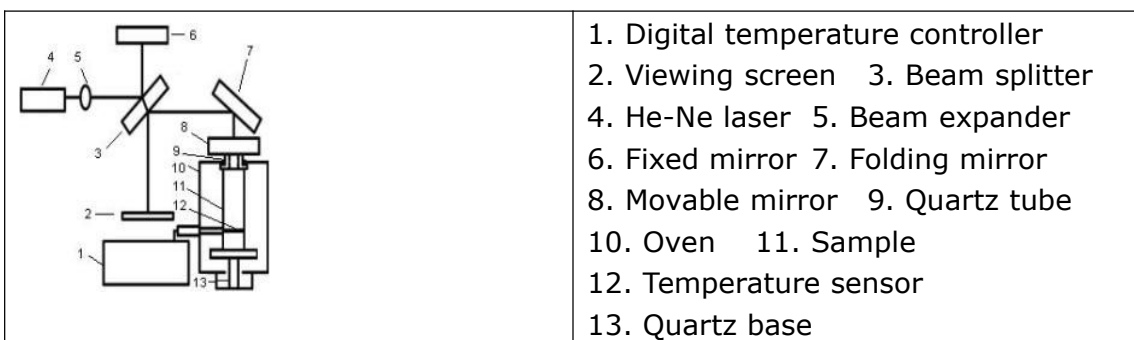
Description

This device includes a Michelson interferometer and an oven, together with a sensor and mirrors etc. Displacement of the specimen end is measured in terms of the number of interference fringes counted. Therefore, the linear expansion coefficient of the testing material can be calculated accurately.

Feature

- Compact structure
- Various types of short sample
- Low power consumption
- High accuracy

Application



Specification

He-Ne Laser	1.0 mW@632.8 nm
Type of Sample	Copper, aluminum, and steel
Sample Length	150 mm
Heating Range	18 °C ~ 60 °C, with temperature-control function
Temperature Measurement Accuracy	0.1 °C
Display Value Error	± 1%
Power Consumption	50 W
Error of Linear Expansion Coefficient	< 3%

Part list

Description	Qty
Thermal Expansion Experiment Unit	1
He-Ne Laser (LLL-2)	1
Plane Mirror	2
Power Cable	1
Lift Tool	1
Aluminum Alloy Sample	1
Copper Alloy Sample	1
Steel Sample	1
User's Guide	1