

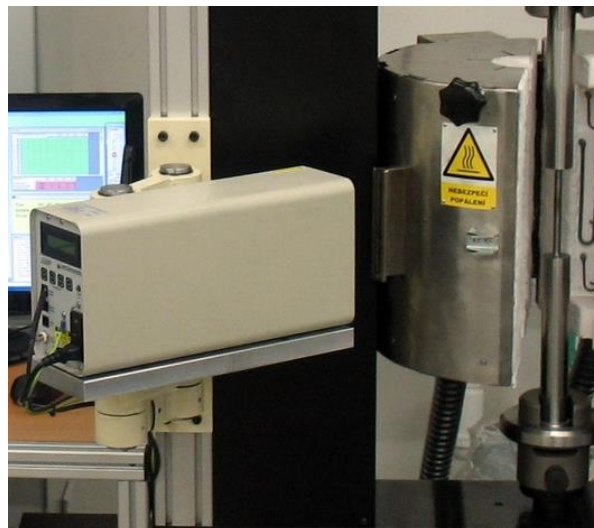
Product information

Laser extensometers LE-05, LE-15

Application

Laser extensometers are designed for accurate non-contact measurement of elongation. They use a fast laser sensor for measuring the elongation between the reflective strips placed on the specimen. The measuring range is 8-127 mm for LE-05 and 8-380 mm for LE-15. The high resolution of the extensometer enables accurate measurement even for small stretch, stretching of the current value is displayed on the screen. Its value can be reset anytime during the measurement cycle by the reset button. The extensometer can be connected to existing measurement systems using analog output 0-10 V or digital RS232 serial output.

Visible scanning beam oriented in a vertical plane is simply directed to a specimen on which reflective strips are placed (4 meters are included) in the desired initial clamping length. As an option you can use reflective clips, which are simply attached to the specimen and allow reuse. For temperatures higher than 425 ° C, an informal method of measurement can be used, which reflects the entire beam from the reflective tape placed outside the high temperatures and clips on the specific specimen length overshadow it.



Technical data

Type of extensometer		LE-05	LE-15
Measuring range	mm	8-127	8-380
Nonlinearity	mm	±0,01	±0,05
Resolution	mm	0,001	0,01
Repeatability	mm	±0,005	±0,05
Dimensions (length x height x depth)	mm	381x180x115	686x457x196
Weight	kg	6	22
Sampling rate	Hz	100	
Display		2 rows, 16 signs in the rows, LCD display with LED light	
Analogue input		16 bit, ±10 V from full range, ranges: 2, 5, 10 ,20 ,50, 100mm	
Distance from the specimen	mm	Nominal 254 mm, maximum 508 mm	
Digital output		RS232 connector	
Orientation of scanning		vertical	
Laser source		Laser, 670 nm, maximal power <1 mW, certified as laser	
Accessories		Reflective tapes up to temperature 150°C, reflective clips up to temperatures	
		Articulated tripod	

Technical changes are reserved by the manufacturer

Manufacturer:

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