

Keysight E1737A Material Temperature Sensor

Data Sheet



The E1737A Material Temperature Sensor is used with the Keysight Technologies, Inc. E1736A USB Sensor Hub as part of the 5530 Laser Calibration System. The E1737A Material Temperature Sensor connects to the E1736A USB Sensor Hub via a detachable E1739A/B/C/D sensor cable. Sensor cables come in different lengths (5 m, 10 m, 15 m, 25 m), they have easy snap-on connectors so users can quickly change cable lengths as needed.

The E1737A Material Temperature Sensor monitors the temperature of an area of the machine tool being calibrated to enable the laser calibration system to automatically compensate for dimensional changes. The sensor has a magnetic base for ease of attachment.

Specifications

Measurement range	0 – 55°C (32 – 131°F)
Measurement accuracy	±0.1°C (±0.2°F) with yearly calibration
Measurement resolution	0.004°C (0.007°F)
Time constant	60 s typical
Refresh rate	per 4 s (per 15 s with Metrology Application Software 10747F Rev F.04.04 or later)
Power requirement	+3.3 V at maximum current (6 mA) +3.3 V at average current (0.3 mA)
Power dissipation	1 mW typical
Dimensions	Φ42 x 17.5 mm (Φ1.65 x 0.7 in)
Weight	30 g (0.07 lb)
Certification	ISO 17025

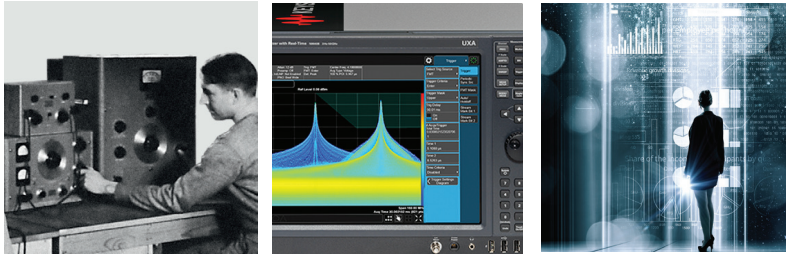
Related Literature

Publication title	Publication number
5530 Laser Calibration System – Brochure	5989-9354EN
5530 Laser Calibration System – Data Sheet	5989-9712EN

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