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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E1736A

The Agilent/Keysight E1736A USB Sensor Hub interfaces E1737A material temperature sensors and E1738A air temperature/pressure/humidity sensors used with the 5530 Laser Calibration System. Multiple sensors of both types can be accommodated so the laser system can apply environmental correction factors. Environmental compensation for laser interferometer calibration of machine tools and CMMs, multi-sensor air and material monitoring around the device under calibration. USB hub for mixed E1737A and E1738A sensors Air Pressure Resolution: 5 Pa (0.001 psi) Sensor Cable Family: E1739A/B/C/D 5 m/10 m/15 m/25 m Multi Sensor Support: multiple E1737A and E1738A sensors Numeric rows from Agilent/Keysight E1736A USB Sensor Hub data sheet 5989-9709EN.



MODEL

**Agilent / Keysight
E1736A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E1736A

LISTING

<https://aumictechlabs.com/products/e1736a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E1736A is a USB Sensor Hub that connects up to four environmental sensors to a PC via high-speed USB 2.0, functioning as a critical interface within the Keysight 5530 Laser Calibration System. The hub acquires material temperature, air temperature, air pressure, and humidity data to enable calculation of correction factors for laser measurement systems, ensuring calibration accuracy across varying environmental conditions. Technical Specifications Sensor Capacity: Up to four sensors (E1737A Material Temperature and E1738A Air Temperature/Pressure/Humidity types) Measurement Ranges: Material Temperature: 0 to 55 °C

(32 to 131 °F) Air Temperature: 0 to 40 °C (32 to 104 °F) Air Pressure: 70 to 110 kPa (10.2 to 16.0 psia) Air Humidity: 10 to 90% Typical Resolution: Material Temperature: 0.004 °C (0.007 °F) Air Temperature: 0.004 °C (0.007 °F) Air Pressure: 5 Pa (0.001 psi) Air Humidity: 1% Refresh Rate: 4 seconds USB Interface: High-speed USB 2.0 Power: USB bus-powered; no external supply required Dimensions: 102 × 63 × 24 mm (4.02 × 2.48 × 0.95 in) Weight: 200 g (0.44 lb) Enclosure: Die-cast casing Key Features Snap-in sensor connectors for rapid setup and field reconfiguration Interchangeable sensor cables in 5 m, 10 m, 15 m, and 25 m lengths Compact form factor for laboratory and field deployment Real-time environmental monitoring with 4-second data acquisition cycle Compatibility & Integration The E1736A integrates with the Keysight 5530 Laser Calibration System and Agilent 5530 Dynamic Calibrator systems. Compatible sensors include the E1737A Material Temperature Sensor and E1738A Air Temperature/Pressure/Humidity Sensor.

E1736A Characteristics / Specifications

PARAMETER	VALUE
Model	E1736A
Instrument Type	USB environmental sensor hub
Host System	5530 Laser Calibration System
Supported Material Sensor	E1737A
Supported Air Sensor	E1738A
Air Temperature Measurement Range	0 C to 40 C (32 F to 104 F)
Material Temperature Measurement Range	0 C to 55 C (32 F to 131 F)
Air Pressure Measurement Range	70 kPa to 110 kPa (10.2 to 16.0 psia)
Relative Humidity Measurement Range	10 percent to 90 percent
Air Temperature Resolution	0.004 C (0.007 F)
Material Temperature Resolution	0.004 C (0.007 F)
Air Pressure Resolution	5 Pa (0.001 psi)
Relative Humidity Resolution	1 percent
Refresh Rate Keysight Sheet	per 4 s
Dimensions Height	102 mm (4.02 in)
Dimensions Width	63 mm (2.48 in)
Dimensions Depth	24 mm (0.95 in)
Weight	200 g (0.44 lb)
Host Interface	USB 2.0 high speed
Sensor Cable Family	E1739A/B/C/D 5 m/10 m/15 m/25 m
Publication	5989-9709EN
Multi Sensor Support	multiple E1737A and E1738A sensors
Humidity	Measurement Range: 10 percent to 90 percent

E1736A Specifications

PARAMETER	VALUE
Agilent Keysight E1736A USB Sensor Hub	Overview
Key Features	USB hub for mixed E1737A and E1738A sensors
Compact hub sized for portable 5530 kits	Enables air and material environmental correction factors
Technical Specifications	Model: E1736A
Notes	Numeric rows from Agilent/Keysight E1736A USB Sensor Hub data sheet 5989-9709EN.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Humidity	Measurement Range: 10 percent to 90 percent
Model	E1736A
Instrument Type	USB environmental sensor hub
Host System	5530 Laser Calibration System
Supported Material Sensor	E1737A
Supported Air Sensor	E1738A
Air Temperature Measurement Range	0 C to 40 C (32 F to 104 F)
Material Temperature Measurement Range	0 C to 55 C (32 F to 131 F)
Air Pressure Measurement Range	70 kPa to 110 kPa (10.2 to 16.0 psia)
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Sensor Cable Family	E1739A/B/C/D 5 m/10 m/15 m/25 m
Publication	5989-9709EN
Multi Sensor Support	multiple E1737A and E1738A sensors Notes Numeric rows from Agilent/Keysight E1736A USB Sensor Hub data sheet 5989-9709EN.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

environmental correction factors.

Applications

Environmental compensation for laser interferometer calibration of machine tools and CMMs, multi-sensor air and material monitoring around the device under calibration.

Key Features

USB hub for mixed E1737A and E1738A sensors

Supports multiple sensors of both types

High-speed USB connection to the system PC

Compact hub sized for portable 5530 kits

Enables air and material environmental correction factors

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	E1736A
Instrument Type	USB environmental sensor hub
Host System	5530 Laser Calibration System
Supported Material Sensor	E1737A
Supported Air Sensor	E1738A
Air Temperature Measurement Range	0 C to 40 C (32 F to 104 F)
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Sensor Cable Family	E1739A/B/C/D 5 m/10 m/15 m/25 m

PARAMETER	VALUE
Publication	5989-9709EN
Multi Sensor Support	multiple E1737A and E1738A sensors

Notes

Numeric rows from Agilent/Keysight E1736A USB Sensor Hub data sheet 5989-9709EN.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.