



On-site Calibration

for Continuous Monitoring Systems



Features

- Achieve time and cost savings by preventing production downtime
- Ensure highly accurate measurements
- Provide certification and mandatory documentation for instrument calibration standards
- Free up staff to focus on primary work assignments
- Enjoy peace of mind with Vaisala-certified calibration expertise and components
- Take advantage of a wide array of available calibrations

Calibrating Vaisala Continuous Monitoring Systems (CMS) on-site helps to maximize reliability and profitability by minimizing costly equipment downtime, removing the need for in-house or factory calibration, and allowing your staff to focus on what is truly important: your business.

Reliable On-site Calibration for Life Science Applications

On-site Calibration Service offers a range of benefits over the conventional options of either shipping equipment back to the manufacturer or calibrating in-house. Reliable on-site calibration minimizes downtime by keeping your monitoring system in place and operational. Certain calibrations require removal of the device from process. For these situations Vaisala offers rental devices and device swap services to ensure continuity of monitoring and gap-free

data. By outsourcing calibration to Vaisala, you remove the need to invest in specialized calibration equipment and training – allowing staff to focus on their primary tasks.

We provide you with a range of single- and multi-point calibration options using application-specific reference instruments, complete with a certificate of NIST traceability. To maintain the high levels of accuracy and optimal performance of your CMS, the system sends a reminder when calibration is due.

Complete Documentation

On-site Calibration Service provides a thorough analysis with comprehensive paper and digital documentation, including a calibration certificate to ensure verification and standards compliance. Calibration reports, data sheets, and calibration labels can be supplied on-site, with digital backup files saved to disk. Our highly accurate calibrations fulfill international standards and make it easy to comply with regulatory requirements.

Technical Data

Single-point Calibration

Temperature

Range	-90 ... +70 °C
Unit Under Test acceptance limits	±1 °C
Calibration points	One point at point of use
Adjustment	Not available
Certificate	Includes as-found/as-left data
Traceability	NIST
Available for the following devices	Vaisala Temperature Data Loggers <ul style="list-style-type: none"> • DL1000 • DL1016 • DL1400 • DL1416 • DL2000 • HMT140
Reference instrument	Vaisala Temperature Data Logger

Temperature for Liquid Nitrogen Applications

Range	-196 °C
Unit Under Test acceptance limits	±3 °C
Calibration points	One point at point of use
Adjustment	Not available
Certificate	Includes as-found/as-left data
Traceability	NIST
Available for the following devices	Vaisala Temperature Data Loggers DL1700
Reference instrument	Vaisala Temperature Data Logger, Fluke 52 Series II

Relative Humidity

Range	Ambient RH (within range of 10 ... 90 %RH) at any temperature within range of +10 ... +45 °C
Unit Under Test acceptance limits	±5 %RH
Calibration points	One point at point of use
Adjustment	Not available
Traceability	NIST
Applicable loggers and transmitters	Vaisala Humidity Data Logger DL2000, HMT140
Reference instrument	Vaisala Humidity Data Logger

Carbon Dioxide

Range	0 ... 20 % at point of use
Unit Under Test acceptance limits	Application dependent
Calibration points	One point at point of use
Adjustment	Not available
Certificate	Includes as-found/as-left data
Traceability	NIST
Available for the following devices	Vaisala Carbon Dioxide Transmitter Series GMT220
Reference instrument	Vaisala GM70

Multi-point Calibration

Temperature

Range	-90 ... +90 °C
Unit Under Test acceptance limits	±0.5 °C
Calibration points	Application-dependent
Adjustment	Available on 3+ point calibrations
Certificate	Includes as-found/as-left data and uncertainties
Traceability	NIST
Available for the following devices	Vaisala Temperature Data Loggers with Probes <ul style="list-style-type: none"> • DL1000 • DL1016 • DL1400 • DL1416 • HMT143 • HMT148
Reference instrument	Ametek ETC159

Relative Humidity

Range	10 ... 90 %RH at ambient temperature
Unit Under Test acceptance limits	Loggers ±3 %RH
Calibration points	Application-dependent
Adjustment	Available on 3+ point calibrations
Certificate	Includes as-found/as-left data and uncertainties
Traceability	NIST
Available for the following devices	Vaisala Relative Humidity Data Loggers HMT141, DL2000
Reference instrument	Vaisala HMT330

Differential Pressure

Range	-15 ... 200 psi
Unit Under Test acceptance limits	Range-dependent
Calibration points	Application-dependent
Adjustment	Available on 3+ point calibrations
Certificate	Includes as-found/as-left data
Traceability	NIST
Available for the following devices	Vaisala Differential Pressure Transmitter Series PDT100
Reference instrument	Fluke Process Calibrator / Pressure Modules

Current and Voltage

Range	0 ... 5 VDC 0 ... 10 VDC 0 ... 20 mA
Unit Under Test acceptance limits	±0.15 %FS at +25 °C
Calibration points	Match Factory Calibration
Adjustment	Yes
Certificate	Includes as-found/as-left data and uncertainties
Traceability	NIST
Available for the following devices	Vaisala Relative Data Loggers HMT140, DL4000, DL2000
Reference instrument	National Instruments PHLe-4141



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