

Calibration Certificate

Certificate Number: H73-1010490

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Manufacturer: Vaisala Oyj
Instrument: MR-2000-20R Humidity and Temperature Logger
Serial Number: 14352063

The internal temperature sensor of the logger was calibrated by comparing the logger readings to a reference thermometer in Vaisala Measurement Standards Laboratory (MSL).
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %.
Traceable to the National Institute of Standards and Technology (NIST, USA) via MSL.

Measurement results after adjustment:

Reference	Channel 1				
Temperature	Observed	Error	Uncertainty	Limit	Pass/Fail
°C	°C	°C	°C	°C	
-24.9	-24.9	0.0	0.2	±0.5	Pass
25.1	25.1	0.0	0.2	±0.5	Pass
69.9	69.9	0.0	0.2	±0.5	Pass

Reference(s):	Serial Number	Calibration Date	Certificate	Next Calibration
Fluke 1560/2560	TP 14846/1	2014-04-14	K008-X00861	2014-10-31

Note(s):

This is new instrument without before adjustment data

Calibration Date: September 30, 2014

Next Calibration: September 30, 2015

Date: October 01, 2014

Ambient Condition(s):

22.5 °C ±0.5 °C
32.6 %RH ±0.9 %RH
1023.1 hPa ±6.4 hPa

Signature:

Jaakko Hämäläinen
Test Engineer

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The humidity sensor of the logger was calibrated by comparing the logger readings to the generated reference humidity readings in Vaisala Measurement Standards Laboratory (MSL).

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %.

Traceable to the National Institute of Standards and Technology (NIST, USA) via MSL.

Measurement results after adjustment:

Reference		Channel 2				
Humidity	Temperature	Observed	Error	Uncertainty	Limit	Pass/Fail
%RH	°C	%RH	%RH	%RH	%RH	
11.0	25.0	11.1	0.1	1.0	±2.0	Pass
44.9	25.1	45.0	0.1	1.0	±2.0	Pass
79.9	25.0	80.0	0.1	1.0	±2.0	Pass

Reference(s):

Thunder 2500
Fluke 1560/2560
PTU303

Serial Number

UG 14327
TP 14846/1
PA 14536

Calibration Date

2013-10-15
2014-04-14
2014-04-24

Certificate

K008-W01910
K008-X00861
K008-X00938

Next Calibration

2014-10-31
2014-10-31
2015-04-30

Note(s):

This is new instrument without before adjustment data

Calibration Date: September 30, 2014

Next Calibration: September 30, 2015

Ambient Condition(s):

22.5 °C ±0.5 °C
32.6 %RH ±0.9 %RH
1023.1 hPa ±6.4 hPa