

## Calibration Certificate



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Certificate Number:

K008-1026599

Customer:

Vaisala Oyj

Box26 00421 Helsinki

Finland Vaisala Oyj

Manufacturer: Instrument:

VL-1400-44N Temperature Logger

Serial Number:

16111012

The external temperature sensor(s) of the above described temperature logger were 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		Channel 2					
Temperature	Observed	Error	Uncertainty	Limit	Pass/Fail	Observed	Error	Uncertainty	Limit	Pass/Fail
°C	°C	°C	°C	°C		°C	°C	°C	°C	
-25.00	-25.00	0.00	0.14	±0.20	Pass	-25.00	0.00	0.14	±0.20	Pass
10.00	10.00	0.00	0.06	±0.20	Pass	10.00	0.00	0.06	±0.20	Pass
25.00	25.00	0.00	0.06	±0.10	Pass	25.00	0.00	0.06	±0.10	Pass
45.00	45.00	0.00	0.08	±0.20	Pass	45.00	0.00	0.08	±0.20	Pass
69.99	69.99	0.00	0.12	±0.20	Pass	69.99	0.00	0.12	±0.20	Pass
Deference	Channel 3					Channel 4				
Reference		(	Channel 3				(	Channel 4		
Temperature	Observed	Error	Channel 3 Uncertainty	Limit	Pass/Fail	Observed	Error	Channel 4 Uncertainty	Limit	Pass/Fail
	Observed °C			Limit °C	Pass/Fail	Observed °C			Limit °C	Pass/Fail
Temperature		Error	Uncertainty		Pass/Fail		Error	Uncertainty		Pass/Fail
Temperature °C	°C	Error °C	Uncertainty °C	°C		°C	Error °C	Uncertainty °C	°C	
Temperature °C -25.00	°C -25.00	°C	Uncertainty °C 0.14	°C ±0.20	Pass	°C -25.00	°C	Uncertainty °C 0.14	°C ±0.20	Pass
Temperature °C -25.00 10.00	°C -25.00 10.00	°C 0.00 0.00	°C 0.14 0.06	°C ±0.20 ±0.20	Pass Pass	°C -25.00 10.00	°C 0.00 0.00	°C 0.14 0.06	°C ±0.20 ±0.20	Pass Pass

Reference(s):

Fluke 1560/2560

Serial Number TP 14410/1

Calibration Date 2015-12-25

Certificate K008-Y03121 **Next Calibration** 2016-06-30

Note(s):

This is new instrument without before adjustment data

Calibration Date:

April 18, 2016

**Next Calibration:** 

April 18, 2017

Date:

April 19, 2016

Digitally signed by SHEI Date: 2016.04.19 08:44:43 +03:00 Reason: Calibration responsible Location: Vaisala Oyj

Ambient Condition(s):

22.1 °C ±0.2 °C 33.1 %RH ±1.4 %RH 998.9 hPa ±0.4 hPa

Signature:

Susanna Heikkilä

Calibration Technician