

## MINSEN TESTING (HONG KONG) LIMITED

明晟檢測(香港)有限公司





# **Certificate of Calibration**

Calibration of thermometer In-house method

Certificate No.:

20CA02120901 03A

Date of issue: 11-Dec-2020

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Item tested

Description \*:

High Accuracy Wifi Temperature & Humidity Data Logger Sensor

Manufacturer \*:

LASCAR

Model/Type\*:

EL-WIFI-TH+

Equipment No.\*:

988BAD20F1D8

Resolution \*:

0.01°C

Location of the test

10/F Yick Fung Group Building, 2 Kin Wong Street, Tuen Mun, N.T., Hong Kong

Item submitted by

Customer \*:

Lascar Electronics (HK) Limited

Address. \*:

8th Floor, China Aerospace Centre, 143 Hoi Bun Road, Kwun Tong.

Date of request:

08-Dec-2020

Date of Calibration:

10-Dec-2020

Apparatus used

Description:

Serial No. / Equip. No.:

**Expire Date** 

Temp / Humidity Chamber

10710071/ MT-RF-022051

18-Apr-2022

Temp / Humidity Datalogger

AA-1804214/ MT-RF-020201

27-Apr-2021

**Ambient conditions** 

Temperature:

22+2 °C

**Test specifications** 

Calibration of thermometer at 15°C 23°C

#### **Test results**

		Unit: °C
Calibration	Correction to	Expanded
point	the UUT	uncertainty
15	-0.06	0.20
23	0.05	0.20

#### Remark:

- 1 Immersion Depth: Full
- 2 The expanded uncertainty is based on standard uncertainty multiplied by coverage factor k=2, providing a level of confidence of approximately 95%.
- 3 The temperature quoted refer to International Temperature Scale of 1990 (ITS-90).
- The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.
- 5 \* Denote information supplied by customer
- The unit under test (UUT) was allowed to stabilized in the laboratory for 24 hours before commencement of calibration

-END-

Approved Signatory:

Form No.: MTRP-CA-02-001-1/Issue 1/Rev B/05/15/2019

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Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 276 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



## MINSEN TESTING (HONG KONG) LIMITED

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# **Certificate of Calibration**

Calibration of Relative Humidity measurement device In-house method

Certificate No.:

20CA02120901 03B

Date of issue: 11-Dec-2020

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Item tested

Description\*:

Wifi Temperature & Humidity Data Logger Sensor

Manufacturer\*:

LASCAR

Model/Type \*:

EL-WIFI-TH+

Equipment No.\*:

988BAD20F1D8

Resolution\*:

0.1%

Location of the test

10/F Yick Fung Group Building, 2 Kin Wong Street, Tuen Mun, N.T., Hong Kong

Item submitted by

Customer\*:

Lascar Electronics (HK) Limited

Address\*:

8th Floor, China Aerospace Centre, 143 Hoi Bun Road, Kwun Tong.

Date of request:

08-Dec-2020 10-Dec-2020

Apparatus used

Date of Calibration:

Description:

Serial No./ Equip. No.:

Expire Date

Temp / Humidity Chamber Temp / Humidity Datalogger 10710071/ MT-RF-022051

18-Apr-2022

AA-1804214/ MT-RF-020201

27-Apr-2021

**Ambient conditions** 

Temperature:

22±2 °C

**Test specifications** 

Calibration of relative humidity measurement device at 40%, 75%.

### **Test results**

	3	Unit: %
Calibration	Correction to	Expanded
point	the UUT	uncertainty
40	-0.9	3.0
75	-0.7	3.0

Temperature setting:

20 °C

## Remark:

- The expanded uncertainty is based on standard uncertainty multiplied by coverage factor k=2, providing a level of confidence of approximately 95%
- 2 The test conditions are the ambient temperature and relative humidity around the RH generator.
- 3 This method is only suitable for working standards.
- The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.
- \* Denote information supplied by customer
- The unit under test (UUT) was allowed to stabilized in the laboratory for 24 hours before commencement of calibration

-END-

**Approved Signatory:** 

Form No.: MTRP-CA-02-004-1/Issue 1/Rev.A/05/15/2019

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