

CALIBRATION CERTIFICATE

FCL/FM/CL/06

Name of the Customer :
Address

M/S, Isha Diagnostics & Research Pvt. Ltd
#311, Sampige Road, Between 15th & 16th Cross,
Malleshwaram, Bengaluru - 560003

Page No.

ULR--CC310324000011703F

Customer's Reference

SRF No

:A0822

Dated

05-07-2024

CAL CERT. NO.	CALIBRATED ON	RECOMMENDED CAL DUE	PAGE NO.
FCL/24/A0822-06	05-07-2024	04-07-2025	1 of 1

Date of receipt & condition

05-07-2024

: Satisfactory

Environmental Conditions:

: Temp. : 25°C

Humidity : 50%RH

Calibration Procedure

:FCL-SOP-THE-05

Description of the instrument

:Digital ThermoHygrometer

Make :Equinox

Model

:EQ-410CTH

SL No : 20212198

ID No

:IDL/EQP/12

Location : Lab

Range : 0 to 50°C & 10 to 98%RH

Resolution : 0.1°C, 1%RH

Standards used:

Sl. No.	Nomenclature	Make & Model	SL No./ID No.	Traceable to	Validity
1	Humidity Temp Meter	Rétronix/ HP23-A	61789382/20291 725 FCL-TH-08	AFSS/24/007	21-04-2025

Humidity Calibration Results @25°C

SL No	Standard Reading in °C	Standard Reading in %RH	DUC Reading in °C	DUC Reading in % RH	Deviation Observed in °C	Deviation Observed in % RH	Measurement Uncertainty in % RH
1	25.1	20.05	25.2	20	0.1	-0.05	0.9
2	25.3	40.12	25.8	40	0.5	-0.12	0.9
3	25.2	60.22	25.4	60	0.2	-0.22	0.9
4	25.1	80.38	25.5	80	0.4	-0.38	0.9
5	25.2	90.30	25.9	90	0.7	-0.30	0.9

Temperature Calibration Results of external sensors

SL No	Standard Reading in °C	DUC Reading in °C	Deviation Observed in °C	Measurement Uncertainty in °C
1	10.03	10.5	0.47	0.8
2	20.02	20.9	0.88	0.8
3	30.14	30.6	0.46	0.8
4	40.18	40.4	0.22	0.8
5	50.24	50.8	0.56	0.8

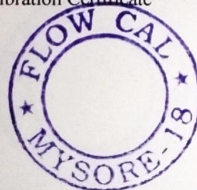
Note:

1. Measurement Uncertainty is reported at 95% confidence level. With k=2
2. Publication or reproduction of this certificate in any form other than by complete set of the whole certificate & in the language, written, is not permitted without the written consent of FLOWCAL
3. The Calibration Certificate relates only to the above DUC. (Device Under Calibration)

*****End of Calibration Certificate*****

Calibrated By

Sanju S B
Calibration Engineer



Authorised By

Vinay Kumar M
Quality manager



CALIBRATION CERTIFICATE

Name of the Customer :	M/S, Isha Diagnostics & Research Pvt. Ltd		FCL/FM/CL/06
Address	#311, Sampige Road, Between 15th & 16th Cross, Malleshwaram, Bengaluru - 560003		Page No.

ULR:-CC310324000011704F

Customer's Reference	SRF No	:A0822	Dated	05-07-2024
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CAL CERT. NO.	CALIBRATED ON	RECOMMENDED CAL DUE	PAGE NO.
FCL/24/A0822-07	05-07-2024	04-07-2025	1 of 1

Date of receipt & condition : 05-07-2024 : Satisfactory
 Environmental Conditions: : Temp. : 25°C Humidity : 50%RH
 Calibration Procedure : FCL-SOP-THE-05
 Description of the instrument : **Digital ThermoHygrometer**
 Make : Equinox Model : EQ-410CTH
 SL No : 20212195 ID No : IDL/EQP/13
 Location : Lab
 Range : 0 to 50°C & 10 to 98%RH
 Resolution : 0.1°C, 1%RH

Standards used:

Sl. No.	Nomenclature	Make & Model	SL No./ID No.	Traceable to	Validity
1	Humidity Temp Meter	Retronix/ HP23-A	61789382/20291 725 FCL-TH-08	AFSS/24/007	21-04-2025

Humidity Calibration Results @25°C

SL No	Standard Reading in°C	Standard Reading in %RH	DUC Reading in°C	DUC Reading in % RH	Deviation Observed in °C	Deviation Observed in % RH	Measurement Uncertainty in % RH
1	25.1	20.05	25.9	20	0.8	-0.05	0.9
2	25.3	40.12	25.5	40	0.2	-0.12	0.9
3	25.2	60.22	25.6	60	0.4	-0.22	0.9
4	25.1	80.38	25.7	80	0.6	-0.38	0.9
5	25.2	90.30	25.9	90	0.7	-0.30	0.9

Temperature Calibration Results of external sensors

SL No	Standard Reading in°C	DUC Reading in °C	Deviation Observed in °C	Measurement Uncertainty in °C
1	10.03	10.3	0.27	0.8
2	20.02	20.6	0.58	0.8
3	30.14	30.7	0.56	0.8
4	40.18	40.6	0.42	0.8
5	50.24	50.9	0.66	0.8

Note:

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*****End of Calibration Certificate*****

Calibrated By

Sanju S B

Calibration Engineer



Authorised By

Vinay Kumar M
Quality manager



FCL/FM/CL/06

CERTIFICATE OF CALIBRATION

SRF No.	A0822	Certificate No.	FCL/24/A0822-08	ULR No.	CC310324000011705F
Date of SRF	05-07-2024	Date of Cal.	05-07-2024	Next Cal Due	04-07-2025
Issue Date	06-07-2024	Cal Procedure No.	FCL-SOP-THE-01	Reference Std.	DKD-R 5-1
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory
DISCIPLINE-GROUP : Thermal-Temperature				Cal Done At	Onsite

Customer Name & Full Address:

M/s. M/S, Isha Diagnostics & Research Pvt. Ltd
 #311, Sampige Road, Between 15th & 16th Cross,
 Malleshwaram, Bengaluru - 560003

DUC DETAILS

Nomenclature	Digital Mini Thermometer	Model / Type	NA
Make	NA	Range	-50 to +70 °C
Serial. No	NA	Resolution	0.1 °C
ID No	IDL/EQP/14	Accuracy	NA
Location	Lab		

STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
4 Wire RTD Sensor With Handy Calibrator	Tempsens & Yokogawa / PT - 100X1, Simplex & CA71	23000079 & T1N5010	TMS/24/64-01	15-03-2025
S Type Thermocouple With Handy Calibrator	Frontier & Yokogawa /S-Type & CA71	31607147 & T1N5010	TMS/23/132-01	20-08-2024

Temperature Bath Calibrator used as Source

Environmental Condition : Temperature : 25.4 °C Humidity: 52 %RH
 All Readings are in °C

Calibration Results:

SI No	Set Temp	STD Readings	DUC Readings	Observed Deviation	Computed Measurement Uncertainty (±)
1	-50	-50.2	-50.4	-0.2	0.8
2	0	0.0	0.0	0.0	0.8
3	10	10.2	10.1	-0.1	0.8
4	20	20.5	20.6	0.1	0.8
5	40	40.7	40.8	0.1	0.8
6	50	50.4	50.3	-0.1	0.8
7	70	70.8	70.9	0.1	0.8

Remarks :

- The Measurement Uncertainty is estimated at a confidence level of 95.45% with a coverage factor k=2.
- This Calibration Certificate refers only to the Particular item submitted for calibration. Calibration points given as per customer request.
- NABL Accredited Calibration Lab as per ISO/IEC 17025:2017 with vide Certificate No:CC-3103
- The Usage of NABL symbol is as per NABL guidelines given in NABL 133. The Calibration Certificate relates only to the above DUC.
- Calibration Certificate Shall not be reproduced except in full, without written approval of the Flowcal.
- Standard maintained are traceable to National / International Standard through accredited laboratories.

Calibrated by

Sanju

(Calibration Engineer)



Authorized by

Vinay Kumar
(Quality Manager)



NABL Accredited Calibration Lab as per ISO/IEC 17025:2017

#71, Koorgalli Industrial Area, Mysuru-570 018. Mob: 98865 02708, Email: vinay1flowcal@gmail.com, www.flowcal.in

FCL/FM/CL/06

CERTIFICATE OF CALIBRATION

SRF No.	A0822	Certificate No.	FCL/24/A0822-09	ULR No.	CC310324000011706F
Date of SRF	05-07-2024	Date of Cal.	05-07-2024	Next Cal Due	04-07-2025
Issue Date	06-07-2024	Cal Procedure No.	FCL-SOP-THE-01	Reference Std.	DKD-R 5-1
No of Pages	01	Page No.	01 of 01	Status on Receipt	Satisfactory
DISCIPLINE-GROUP : Thermal-Temperature				Cal Done At	Onsite

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 #311 , Sampige Road , Between 15th & 16th Cross ,
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DUC DETAILS

Nomenclature	Digital Mini Thermometer	Model / Type	NA
Make	NA	Range	-50 to +70 °C
Serial. No	NA	Resolution	0.1 °C
ID No	IDL/EQP/15	Accuracy	NA
Location	Lab		

STANDARDS USED FOR CALIBRATION AND TRACEABILITY DETAILS

Nomenclature	Make/Model	SI. No / ID No.	Traceable to	Validity
4 Wire RTD Sensor With Handy Calibrator	Tempens & Yokogawa / PT - 100X1, Simplex & CA71	23000079 & T1N5010	TMS/24/64-01	15-03-2025
S Type Thermocouple With Handy Calibrator	Frontier & Yokogawa /S-Type & CA71	31607147 & T1N5010	TMS/23/132-01	20-08-2024

Temperature Bath Calibrator used as Source

Environmental Condition : Temperature : 25.4 °C Humidity: 52 %RH

Calibration Results:

All Readings are in °C

SI No	Set Temp	STD Readings	DUC Readings	Observed Deviation	Computed Measurement Uncertainty (±)
1	-50	-50.4	-50.3	0.1	0.8
2	0	0.0	0.0	0.0	0.8
3	10	10.1	10.2	0.1	0.8
4	20	20.4	20.5	0.1	0.8
5	40	40.6	40.7	0.1	0.8
6	50	50.8	50.6	-0.2	0.8
7	70	70.9	70.8	-0.1	0.8

Remarks :

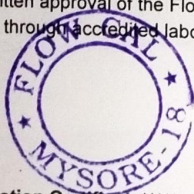
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Calibrated by

Sanju

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(Calibration Engineer)



Authorized by

Vinay Kumar

Vinay Kumar

(Quality Manager)