

CALIBRATION CERTIFICATE

Calibration Certificate No: UCS/CAL/21030005

Date of Issue: 13-03-2021

Date of calibration: 03-03-2021

Suggested Due Date: 03-03-2022

ULR No:CC302021000000141F

Name and Address of Customer:

Hikal Limited
T-21, MIDC Area,
Taloja , Raigad 410208

Ref. No: 03/2021/RTN/435

Date: 02-03-2021

Date of Receipt: 02-03-2021

Condition on Receipt: Good

Details of Equipment :

Name : Digital Thermohygrometer

Make : HTC

Model: HTC -2

Sr.No. : 1910035328

Id.No: GLP-I-40

Department : Archieve

Location : ---

Least Count: 0.1°C / 1 % RH

Range : 0 to 50°C/0 to 100% RH

Accuracy : ±1°C / ±5% RH

Calibration Points: 10,25,45°C (Internal) -10,10,30,50°C (External)
25,50,70,90 % RH (As specified by customer)

Calibration Procedure Used: UCS/CAL/306,301

Environmental Conditions : 25 ± 3 °C & 50 ± 15 % RH

Details of STD equipment used :

Name	Id No	Parameter/Uncertainty	Certificate No	Valid up to
Relative Humidity & Temperature Meter With sensor	UCS/CAL/098	Temperature : ± 0.46°C Relative Humidity : ±1.67%RH	PICAL/1120/T/033	09-11-2021
4 Wire RTD Sensor	UCS/CAL/020	Temperature : ±0.41 to 0.70 °C	UCS/CAL/21020001	04-02-2022
Digital Multimeter	UCS/CAL/003	Resistance: ±0.0014 %	M-201119-18-1 Godrej & Boyce	21-11-2021

OBSERVATIONS :

Discipline : Thermal

Parameter : Temperature

Sub Group : Temperature

Range	Reading On UUC	Reading on Standard	Error	Expanded Uncertainty
°C	°C	°C	°C	°C
0 to 50	10.1	10.23	-0.13	±0.77
	25.5	25.35	0.15	±0.77
	45.4	44.40	1.00	±0.77

Calibrated By :

Name & Sign: Radheya Wadodkar

Authorised Signatory :

Name & Designation: V.W.Patwardhan

Technical Manager

Format No: UCS/QF/7.8/01

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Discipline : Thermal

Parameter : Humidity

Sub Group : Specific Heat

Range	Reading On UUC	Reading on Standard	Error	Expanded Uncertainty
% RH	% RH	% RH	% RH	% RH
0 to 100	28	25.94	2.06	±2.60
	50	47.79	2.21	±2.60
	67	71.03	-4.03	±2.60
	92	90.02	1.98	±2.60

Discipline : Thermal

Parameter : Temperature

Sub Group : Temperature

Range	Reading On UUC	Reading on Standard	Error	Expanded Uncertainty
°C	°C	°C	°C	°C
0 to 50	-8.9	-10.24	1.34	±0.41
	11.8	9.90	1.90	±0.41
	30.8	30.23	0.57	±0.77
	49.9	50.40	-0.50	±0.70

Remarks:

1. The readings noted above are average of five readings.
2. The uncertainty expressed as Expanded uncertainty is calculated at the coverage factor k=2 at a confidence level of 95%.
3. Length of Sensor - 24 mm , Depth of Immersion- 16 mm , Diameter of Sensor - 4.3 mm.

The readings noted are particularly for the equipment submitted for calibration.

The reported values are valid at the time of calibration and under the controlled conditions.

Certificate should not be reproduced except in full with the prior approval of Laboratory.

Any handmade corrections made on the certificate, invalidates the Calibration Certificate.

The Ultimate Calibration Services will not be responsible for any mishandling of equipment after issuing the calibration certificate.

All precautions are being taken while handling the equipment at the time of calibration but lab is not liable for any misbehave of the equipment during calibration or any loss in the process of calibration.

The measurements are traceable to National/International standard.

Calibrated By :

Authorised Signatory :

Name & Designation: V.W.Patwardhan

