



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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Certificate No. : SL2307TL0642-001	Issue Date : 29-07-2023
1. Customer Name & Address: M/s. SIMCO CALIBRATION LABORATORY, 10-3-74/27, Plot No. 151, Street No:3, Teacher's Colony, East Marredpally, Secundrabad-500 026, Telangana.	ULR - C C 2 8 0 6 2 3 0 0 0 0 4 9 5 5 F
	Reference Date : 28-07-2023
	Calibration Date : 28-07-2023
	Calibration Due Date : 27-07-2024

2. Details of Unit Under Calibration:

Description : Universal Data Logger With Sensors (8-Channel)	
Make : YANTRASHILPA	Id No. : SL/SMT/DL/02
Range : Enclosed	Model : DL-35W
Resolution : 0.1/1 °C	

3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No.	Valid up to	Certificate No.
Digital Temperature Indicator With SPRT Sensor	935-14-95 H	20-03-2024	TSC/22-23/18859-2
Type - R Thermocouple	002647	26-05-2024	FL/C/TH/22052023-C013
6 1/2 Digital Multimeter	GER873327	21-04-2024	TSC / 23-24 /1988

4. Environmental Conditions: Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

5. Calibration Procedure: SOP-TL-01

6. Thermal Calibration: Temperature

7. Remarks:

- The instrument/equipment is in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
- This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
- This calibration certificate is meant for scientific and industrial purpose only.
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95.45% confidence level with coverage factor $k = 2$.

Kenneer
Calibrated by

N.V. Kameswara Rao
N.V. Kameswara Rao
Technical Manager
Authorised Signatory



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8. Calibration Results:

RTD (-100 to 450 °C)

CH-01

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.986	-80.3	-0.314	0.4
2	-39.927	-40.2	-0.273	0.4
3	-0.125	0.1	0.225	0.4
4	99.953	100.2	0.247	0.4
5	249.907	250.3	0.393	0.4
6	400.068	400.5	0.432	0.4

CH-02

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.942	-79.6	0.342	0.4
2	-40.112	-39.8	0.312	0.4
3	-0.056	0.1	0.156	0.4
4	100.013	100.3	0.287	0.4
5	250.084	250.5	0.416	0.4
6	400.141	400.6	0.459	0.4

CH-03

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-80.021	-79.7	0.321	0.4
2	-40.036	-39.8	0.236	0.4
3	0.002	0.2	0.198	0.4
4	100.048	100.3	0.252	0.4
5	250.205	250.6	0.395	0.4
6	400.264	400.7	0.436	0.4

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8. Calibration Results:

CH-04

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.927	-79.6	0.327	0.4
2	-40.062	-39.8	0.262	0.4
3	-0.113	0.1	0.213	0.4
4	99.811	100.1	0.289	0.4
5	250.046	250.4	0.354	0.4
6	400.137	400.6	0.463	0.4

CH-05

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.917	-79.6	0.317	0.4
2	-39.996	-39.7	0.296	0.4
3	-0.094	0.1	0.194	0.4
4	99.937	100.2	0.263	0.4
5	250.065	250.4	0.335	0.4
6	400.153	400.6	0.447	0.4

CH-06

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.912	-79.6	0.312	0.4
2	-40.046	-39.8	0.246	0.4
3	-0.098	0.1	0.198	0.4
4	99.954	100.2	0.246	0.4
5	250.047	250.4	0.353	0.4
6	400.043	400.5	0.457	0.4

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8. Calibration Results:**CH-07**

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-80.010	-79.7	0.310	0.4
2	-40.163	-39.9	0.263	0.4
3	-0.013	0.2	0.213	0.4
4	100.005	100.3	0.295	0.4
5	250.137	250.5	0.363	0.4
6	400.158	400.6	0.442	0.4

CH-08

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	-79.918	-79.6	0.318	0.4
2	-40.159	-39.9	0.259	0.4
3	0.107	0.3	0.193	0.4
4	100.116	100.4	0.284	0.4
5	250.117	250.5	0.383	0.4
6	400.126	400.6	0.474	0.4

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8. Calibration Results:

K-Type (0 to 1200 °C)

CH-01

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.787	50	0.213	0.7
2	249.674	250	0.326	0.7
3	499.588	500	0.412	0.7
4	749.474	750	0.526	1.7
5	999.302	1000	0.698	1.7
6	1199.013	1200	0.987	1.8

CH-02

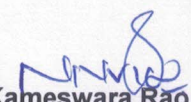
S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.848	50	0.152	0.7
2	249.674	250	0.326	0.7
3	499.574	500	0.426	0.7
4	749.464	750	0.536	1.7
5	998.743	998	-0.743	1.7
6	1199.879	1199	-0.879	1.8

CH-03

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.813	50	0.187	0.7
2	249.718	250	0.282	0.7
3	499.637	500	0.363	0.7
4	749.486	750	0.514	1.7
5	999.862	999	-0.862	1.7
6	1199.984	1199	-0.984	1.8

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8.Calibration Results:

CH-04

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.776	50	0.224	0.7
2	249.664	250	0.336	0.7
3	499.576	500	0.424	0.7
4	749.435	750	0.565	1.7
5	999.615	999	-0.615	1.7
6	1198.879	1198	-0.879	1.8

CH-05

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.815	50	0.185	0.7
2	249.737	250	0.263	0.7
3	499.686	500	0.314	0.7
4	749.588	750	0.412	1.7
5	998.748	998	-0.748	1.7
6	1199.983	1199	-0.983	1.8

CH-06

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.826	50	0.174	0.7
2	249.718	250	0.282	0.7
3	499.637	500	0.363	0.7
4	749.536	750	0.464	1.7
5	999.745	999	-0.745	1.7
6	1199.974	1199	-0.974	1.8

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8. Calibration Results:

CH-07

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.807	50	0.193	0.7
2	249.766	250	0.234	0.7
3	499.638	500	0.362	0.7
4	749.585	750	0.415	1.7
5	999.424	1000	0.576	1.7
6	1199.377	1200	0.623	1.8

CH-08

S No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (±°C)
1	49.813	50	0.187	0.7
2	249.759	250	0.241	0.7
3	499.628	500	0.372	0.7
4	749.564	750	0.436	1.7
5	999.491	1000	0.509	1.7
6	1199.368	1200	0.632	1.8

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