TEMPSENS

CC-2840

TEMPSENS CALIBRATION CENTRE
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TRUE COPY

Calibration Certificate No.: TL/022/15.1.1
ULR No.: CC284022000000045F

M/S NATIONAL CENTRE FOR QUALITY CALIBRATION **4,ABHISHREE CORPORATE PARK,** **NEAR SWAGAT BUNGALOW BRTS,** **ISKCON-AMBLI ROAD, AMBLI** **AHMEDABAD- 380058, GUJARAT, INDIA**	**J.O.NO.** **Received Date** **Calibration Date** **Next Cali. Due On** **Issue Date**	**: T/222/2/2113014216** **: 04/01/2022** **: 05/01/2022** **: 04/01/2023** **: 06/01/2022**

Sample Description :

Calibration Required At	**: 400, 800, 1000, 1200 & 1500°C**
Item	**: PTRH10%/PT "S" TYPE THERMOCOUPLE WITH INDICATOR**
Inst. Sr. No. & Id. No.	**: 32896 & NCQC/T-17**
Indi. Sr. No. & Id. No.	**: 16118 & NCQC/T-02**
Inst. Make	**: TEMPSENS**
Indi. Make/Model	**: BEAMEX/MC2-TE**
Resolution	**: 0.01°C**
Range	**: 250 TO 1500 °C**
Location	**: At Lab**
Condition of Item	**: Satisfactory**

Calibration Procedure : The UUC was allowed to be stable at specified temperature points. The reading of Standard and UUC was recorded.This Certificate Format No. F-LAB-5 The report provides the reading and deviation. As per Work Instruction no. WI-LAB-17 Temperature (in °C) against Thermocouple reading (in mV) are calculated by using ASTME-230/IS TABLE.Minimum Immersion Length is 100 MM

The UUC has been compared with the following working standards of sensor & measuring instrument.

Standards	Traceable To	Certificate No.	Valid Up to
SSPRT	TEMPSENS, UDAIPUR	TL/021/493.1.1	28.05.2022
THERMOCOUPLE "S" TYPE	NPL, NEW DELHI	20050054/D1.03/C-029	18.06.2022
CALSYS 1200L			
CALSYS 1500L			
PRECISION THERMOMETER	YMPL, UDAIPUR	YMPL/329553/117617	22.06.2022

The Standards used for calibration is traceable to National / International Standard.
The results of calibration are as under : Reference junction calculated at 0 °C

Sr. No.	Standard Sensor °C	UUC		Dev. °C	Expanded uncertainty (±°C)
		mV	°C		
1	399.95	3.262	400.29	0.34	0.50
2	799.68	7.349	800.41	0.73	1.50
3	999.58	9.593	1000.52	0.94	1.50
4	1198.95	11.952	1200.09	1.14	1.50
5	1498.88	15.584	1500.23	1.35	2.70

Temperature Scale: ITS - 90 Ambient Temp. : 25±2°C Relative Humidity :50±20%RH

NCQC Valid up to 04/01/2023 Reviewed

Calibrated By **Checked By** **Certified By**

Alpesh Parakh
Technical Manager

NCQC System Certificate No. 280

Note:
(1) The calibration results reported in this certificate are valid at the time of and under the stated condition of measurement for the particular sample.
(2) The report shall not be reproduced except in full, without written permission of the laboratory
(3) Coverage factor "*k*" =2 at approx 95.45% confidence level.
(4) Next Calibration Due Date mentioned as per customer requirement.