



CC - 3237

TRACEABILITY COPY



#40, 2<sup>nd</sup> Floor, 2<sup>nd</sup> Street,  
Padmavathi Nagar, Chromepet  
Chennai, Tamil Nadu - 600 0

**CALIBRATION CERTIFICATE**

MCAL/FOR/QD-12

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PRF #	: MCAL/PRF/052351	Date of Calibration	: 18-May-2023
Certificate #	: MSIR/410523/51-001	Recom. Due Date	: 17-May-2024

**DETAILS OF USER CUSTOMER**

M/S. Newton biomedical Service,  
27, Pradhakshanam Road, A-Plot,  
2nd Floor, Karur-639 001.

ULR # : CC323723000008561F  
Calibrated at : Lab  
Date of Receipt : 18-May-2023  
Cond. On Receipt : Satisfactory  
Date of Issue : 19-May-2023

**DETAILS OF TEST / UNIT UNDER CALIBRATION**

Description	: Digital Thermometer With Sensor	Identification #	: --
Range	: -50 to 1300 °C	Serial #	: S1023388
Cal. / Working Range	: 50 to 400 °C	Make	: Kusam-Meco
Least Count	: 1 °C	Model # / Type	: KM-945
Location	: --	Accuracy	: --

**DETAILS OF MASTER INSTRUMENT USED**

Description (Range)	Identification #	Valid upto (Due Date)	Traceability Certificate #
Digital Thermometer	MCAL/INS/TH-45	4-Dec-2023	MSIR/411222/41-003
RTD "1/10Din" (-80 to 250)	MCAL/INS/TH-02	3-Mar-2024	TSC/22-23/18030-1
TC "S-Type" (200 to 1200°C)	MCAL/INS/TH-03	3-Mar-2024	TSC/22-23/18030-2

MFC #	: MCAL/MFC/TH-02
Details of Env.	: Temperature : 25±2°C      Relative Humidity : 55±20 % RH

Issued by :  
MCAL - Engineer

*M. Jeethu*  
AJEETH KUMAR. M

Authorised by :  
Assistant Manager

**MSIR INDIA PRIVATE LIMITED**

(The Madras Science and Industrial Resources)

Phone :044 2265 2634, +91 9789877567, Email: calibration@msirindia.com Web: www.msirindia.com



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Certificate # MSIR/410523/51-001

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Senspr-T1

CALIBRATION RESULTS				
Parameter : Thermal				
Sl. #	Test Readings (°C)	Standard Readings (°C)	Error (°C)	Uncertainty ± (°C)
1.	52	52.39	-0.39	0.25
2.	109	109.65	-0.65	0.25
3.	213	213.83	-0.83	0.25
4.	305	305.99	-0.99	0.28
5.	407	408.13	-1.13	1.80

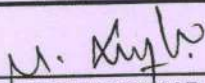
Senspr-T2

CALIBRATION RESULTS				
Parameter : Thermal				
Sl. #	Test Readings (°C)	Standard Readings (°C)	Error (°C)	Uncertainty ± (°C)
1.	52	52.75	-0.75	0.25
2.	109	109.93	-0.93	0.25
3.	213	214.13	-1.13	0.25
4.	305	306.38	-1.38	0.28
5.	407	408.41	-1.41	1.80

Remarks

1. The reported Expanded Uncertainty is calculated at 95.45 % C.L with coverage factor k=2.
2. The reported readings are average of three readings.
3. Temperature Scale : ITS-90 Chart.

Issued by :  
MCAL - Engineer

  
AJEETH KUMAR. M

Authorised by :  
Assistant Manager



\*\*\* End of Certificate \*\*\*

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### CALIBRATION CERTIFICATE

NAME OF CUSTOMER : OHC SERVICES, CHENNAI  
UNIT DESCRIPTION : REFRIGERATOR

COMPANY : WHIRLPOOL

MODEL : 13699

SERIAL NO : INC121526493

DATE OF CALIBRATION : 06.09.2023

VALID UP TO : 05.09.2024

INSTRUMENT USED FOR CALIBRATION: DIGITAL THERMOMETER

MODEL NO:KUSAM-MECO&KM-945

SL.NO: S1023388

CERTIFIED BY: MSIR INDIA PVT. LTD

ENVIROMENTAL CONDITION:

S.NO	Instrument Temperature Displayed	Thermometer Temperature Displayed	Difference $\pm 1^{\circ}\text{c}$	Remarks
1.	TOP - $+4^{\circ}\text{C}$	$+4.1^{\circ}\text{C}$	0.1	OK
2.	MIDDLE - $+4^{\circ}\text{C}$	$+4^{\circ}\text{C}$	0.0	OK
3.	BOTTOM - $+4^{\circ}\text{C}$	$+4.3^{\circ}\text{C}$	0.3	OK

STANDARD INSTRUMENT USED:

Nomenclature:	Digital Thermometer with Sensor(K Type)	Serial no:	S1023388
Make& Model:	KUSAM MECO & KM-945	Code/ID No:	---
Range:	$-50^{\circ}\text{C}$ to $1300^{\circ}\text{C}$	Resolution:	$1^{\circ}\text{C}$

TESTED BY: G.DINESH

APPROVED BY: G DINESH

NOTE: 1) Calibration Points & due date is given as per customer request 2) This certificate refer only to particular item submitted for certificate 3) The calibration results reported are valid at the time of and under the stated conditions of the measurements 4) Any error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.