



# ACCURATE TESTING & CALIBRATION SERVICES

(Solutions For All)

P. No. III, K. No. 604, First Floor, Shyam Vihar, Part-II, Z-Block, Najafgarh, New Delhi-110043

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CC-3378

F. No.: ATCS/QPM-32F REV.(01)26-02-2022

## CALIBRATION CERTIFICATE

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|  |  |
|--|--|
| ULR No. : CC337623006000157F                     | Certificate No. : ATCS23000000157            |
| CUSTOMER NAME & ADDRESS:-                        | Service Request No.&Date : 0074 & 17-02-2023 |
| M/s. LifeWell Dignostics Private Limited         | Date of Receipt : 17-02-2023                 |
| 1st Floor, Above Sri Guru Ram Dass Preparatory   | Date of Calibration : 18-02-2023             |
| School Building, Sector- 19, Chandigarh - 160019 | Sug. Cal. Due Date : 18-02-2024              |
|  | Issue Date : 20-02-2023                      |

### ITEM'S DESCRIPTION & IDENTIFICATION

|  |                             |
|--|-----------------------------|
| Instrument Name : Temperature Indicator with Sensor Fitted in Refrigerator | Range / Size : 2 to 8 °C    |
| Make : Ferminator  | Least Count : 1 °C          |
| Model No. : MCV-400  | Visual Inspection : Ok      |
| Serial No. : J20701012130063   | Location : BioChemistry,LAB |
| Assets ID : HS/LAB/LEQ/REF/CDG/08-22/68                                    |                             |

|                                |  |
|--------------------------------|--|
| ENVIRONMENTAL CONDITIONS       | Calibration Procedure : ATCS/CP/TH-10 & 11 |
| Temperature : (25 ± 3) °C      | Reference Standard : ITS:1990              |
| Relative Humidity : (60 ± 15)% | Calibration Performed at : Site            |

| STANDARD EQUIPMENT USED                 |                   |                      |            |
|---|-------------------|----------------------|------------|
| Standard Instrument Name                | Serial/Ident. No. | ULR/ Certificate No. | Valid upto |
| Dig. Thermometer With Sen. (4 Wire RTD) | ATCS/TH/DTM/001   | TSC/22-23/8631-02    | 03-09-2023 |

| CALIBRATION RESULT                |                      |           |                |
|-----------------------------------|----------------------|-----------|----------------|
| Corrected Standard Value (Master) | Observed Value (UUC) | (±) Error | (±)Uncertainty |
| ( °C)                             | ( °C)                | ( °C)     | ( °C)          |
| 2.013                             | 2                    | -0.013    | 1.01           |
| 4.989                             | 5                    | 0.011     |                |

### NOTE :

1. DUC = Device Under Calibration, UUC=Unit Under Calibration
2. Expanded uncertainty of measurement at approx 95% confidence level for coverage factor (k) = 2
3. Suggested next due date of calibration is given as requested by customer.
4. DUC has been calibrated against lab standards are traceable to national & international standards.
5. This result of calibration refer to only to the particular item submitted for calibration.
6. Certificate issued is only scientific or industrial purposes only.
7. The result produced in this certificate are valid under the stated conditions at the time of calibration.
8. No report should be reproduced, except in full, unless a written permission for the publication of an approved abstract has been obtained from the CEO, Accurate Testing & Calibration Services, New Delhi.

Issued & Authorised By

*Suman*  
Suman Kumar  
(Calibrated By)

\*End Of Report\*



*Harshik*  
Harshikesh Kumar  
( TM / QH )



*Kuldeep*



# TransCal

Measurement to Perfection...



Main Bld. Premises : Centenary Building (G. Flr), Door No. At : 100  
W. Park Rd., Between Samplige Road And Margosa Rd.,  
10th Crs., Malleswaram, Bangalore City, Pin--560003

## CALIBRATION CERTIFICATE

Customer Name & Add. : M/s. **Accurate Testing & Calibration Services**  
P No-111,K No-604 First Floor, Shyam Vihar, Part-II,Z-Block Nagaigarh, New Delhi-110043

Customer's Reference : SRF No. : TSC/22-23/8631 Dated : 03 Sep 2022  
ULR.NO CC223122000091188F

| Calibration Certificate Number | Calibrated On | Recommended Calibration Due | Page Number |
|--------------------------------|---------------|-----------------------------|-------------|
| TSC/22-23/8631-2               | 03 Sep 2022   | 03 Sep 2023                 | 1 of 2      |

| Details of device under calibration |  | Transcal ID              |              |
|-------------------------------------|--|--------------------------|--------------|
| Nomenclature                        | Digital Thermometer with 4 Wire RTD Sensor | No. of Pages             | 2            |
| Make                                | SMKYUojan                                  | Cal Procedure No.        | TSC/CAL/501  |
| Model/Range                         | Simplex/AI-5600                            | DUC Received             | 03 Sep 2022  |
| SI No.                              | 148/201550511                              | DUC Condition on Receipt | Satisfactory |
| ID No.                              | ATCS/TH/DTM/001                            | Cal At                   | Thermal Lab  |

Environmental Conditions : Temperature In °C : 25±4 Humidity in RH % : 30-75

### Standards used :

| SI No. | Nomenclature             | Make | Model     | SI No./ID.No.   | Certificate No. | Validity    |
|--------|--------------------------|------|-----------|-----------------|-----------------|-------------|
| 1      | SPRT Sensor with Readout | Fuke | 5609/1524 | 01161 / 2024133 | TL/022/186.1.1  | 08 Apr 2023 |

### Note :

- This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Partial Publication/ reproduction of this Certificate in any form is not permitted without the written consent of Transcal.
- Errors if any in this Certificate shall be brought to notice within 45 days from the date of this Certificate
- Measurement Uncertainty reported is at approximately 95 % confidence level with k=2; Units of Measurement results & Measurement Uncertainty are same as that of range selected - Unless otherwise indicated.
- Calibration of the DUC are traceable to National/International Standards
- Corrections/adjusting, invalidate the Calibration Certificate- exception to the 'Final Page or Part of this Report- provided for incorporation of additional data ( To be filled by customer authorized signatory and not under calibration laboratory control)
- In Result Sheets, 'Pass' indicates measured readings are within specification limit, 'Fail' indicates measured readings are out of specification limit & '-' indicates no specification limit furnished.
- Unless otherwise specified the Measurement Data recorded is "As Found"-Without any adjustment
- Consider Model or Range whichever is applicable
- NABL-133 guidelines are adopted for use of NABL symbol.

Calibrated By

Kiran K.M.  
(Calibration Engineer)

Checked By

Navin Kumar S.R.  
(Sr. Calibration Engineer)

Authorised By

Vijaya Kumar V  
(Technical Director)





CAL CERT. NO : TSC/22-23/8631-2

ULR.NO : CC223122000091168F

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Range: -200 to 850°C

Working Range : -200 to 850 °C

Resolution: 0.001°C

Accuracy:  $\pm 0.02\%$  Rdg + 0.060 °C

Results.

Measurement of Temperature Channels

| Sl. No. | Std Reading (°C) | DUC Reading (°C) | Deviation Observed (°C) | Measurement Uncertainty in $\pm$ (°C) | Remarks |
|---------|------------------|------------------|-------------------------|---------------------------------------|---------|
| 1       | -99.983          | -100.002         | -0.019                  | 0.07                                  | Pass    |
| 2       | -50.012          | -50.011          | 0.001                   | 0.07                                  | Pass    |
| 3       | 0.069            | 0.073            | 0.004                   | 0.02                                  | Pass    |
| 4       | 49.957           | 50.026           | 0.069                   | 0.02                                  | Pass    |
| 5       | 100.000          | 100.037          | 0.037                   | 0.02                                  | Pass    |
| 6       | 150.049          | 150.069          | 0.020                   | 0.08                                  | Pass    |
| 7       | 200.007          | 200.015          | 0.008                   | 0.08                                  | Pass    |
| 8       | 300.052          | 300.078          | 0.016                   | 0.08                                  | Pass    |
| 9       | 400.054          | 400.067          | 0.013                   | 0.08                                  | Pass    |
| 10      | 600.062          | 600.082          | 0.020                   | 0.08                                  | Pass    |

Conclusion Remarks:

1 Temperature Scale : International Temperature Scale, 1990 (ITS-90).

2 Accuracy Claimed as per Customer request


Calibrated By

  
Khan K.M.  
(Calibration Engineer)

Checked By

  
Naveen Kumar S R  
(Sr. Calibration Engineer)

Authorised By

  
Vijaya Kumar V  
(Technical Director)





