WIKA Instruments India Pvt. Ltd.







Calibration Certificate:

Cal.Cert. Number:

WT18/021

WIKA ID No.

18/021

Object

Temperature Sensor with Indicator

Manufacturer:

WIKA+ASL

Type

CTH7000+CTP5000

Serial number:

020560/05+PO00059233-1-10-2

ID No. MT-1-50020-22

Customer:

Internal Calibration

Order No. :

Date: -

OA No.

Date: -

Number of Pages of the Certificate:

Date of Calibration

8-Aug-18

Page 1

This Calibration Certificate documents the traceability to National/International standards which realise the units of measurements according to the International System of Units (SI)

The user is oblidged to have the object recalibrated at appropriate intervals

This Calibration Certificate may not be reproduced other than in full except the permission of both, the NABL and the issuing laboratory. Calibration Certificates without signatures and seal

are not valid.

The results in this certificate only relate to the object stated

Next Recommended Date for Calibration as per Customer Request 7-Aug-19

Date

8-Aug-18

Calibrated by

for Head of the salibration laboratory

V. Pàtil

Manager -QA

Pressure + Temperature

Tel.: 020 - 66293200 Fax: 020 - 66293275 / 350 Email: sales@wika.co.in Web: www.wika.co.in

WIKA Instruments India Pvt. Ltd.

Calibration Laboratory for Pressure Measurement



WT18/021

Specifications of Device Under Calibration:

CC - 2452

Temperature Range:

-70

650 to

0C

Calibration Range:

-35

650 to

Method of Measurement:

Comparison

Accuracy as per data sheet:

Least Count:

0.001 °C

Calibration Conditions:

Ambient Temperature:

21.9 °C

Humidity

58.2 %Rh

Atmospheric Pressure:

942.3 mbar

Place of Calibration:

Location:

WIKA Instruments India Ltd., Pune

Number of measurements

Calibration Procedure:

Calibration Work Instruction Manual Section-5

Reference/Secondary Standard:

Name:

Temperature Sensor with Indiactor

Model No: CTH 7000+CTP 5000 008508/20+P00028709-10-1

Sr. No:

ARAI/CAL/1801/2714

Cal. No: Validity:

8-Feb-19

-39 to

Range:

660

 ^{0}C

Temperature Sources used:

Name

Sr. No

Range

Temp. Bath Temp. Bath 1402286 1402117 -35 to 40 to

165 650

OC. ^{0}C

Comments:

Calibration methods:

For calibration following norms are used:

- IEC 751- Specifications and tables for Resistance Temperature Detectors (RTD)

- IEC 584- Specications and tables for Thermocouples

- NABL 124-Specific Criteria for Calibration Laboratories in Thermal & Optical Discipline QUMENTS.

- EN 13190- Bi-metal, Gas in metal thermometers

Pressure + Temperature

High Cliff Industrial Estate, Village - Kesnand, Pune - 412 207 (Maharashtra) ČIN No. U29299MH1997PTC110418 Tel.: 020 - 66293200

Plot No. 40, Gat No. 94 + 100,

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F/QA/085-00

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Page 3 of Calibration Certificate No:
WT18/021



Calibration Results:

Step	Set Point °C	Reading on Standard °C	Reading on DUC	Devitaion (DUC-Std) °C	Expanded Uncretainty U °C
1	-35	-33.170	-33.193	-0.023	0.100
2	0	0.014	0.013	-0.001	0.100
3	150	149.682	149.697	0.014	0.100
4	300	299.795	299.795	0.000	0.100
5	650	650.114	650.118	0.004	0.100

Notes:

- 1 The reported readings are average values of five readings rounded off as per least count of standard
- 2 Temperature readings are taken after proper stabilization of set points in temperature source
- 3 Set points are taken as per the least count of DUC
- 4 International Temperature scale 1990-ITS 90 is referred

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

The calibration object is labeled with a calibration mark, which shows the number of this calibration certificate and the month and the year of the calibration date.

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Fax: 020 - 66293275 / 350 Email: sales@wika.co.in Web: www.wika.co.in NABL POLY

Pressure + Temperature