Smart in sensing

Services

# Standard Points

## Temperature Laboratory Klingenberg

Status: May 2026

# Thermometer

| TYPE OF DEVICE UNDER TEST | TYPE | MEASURING POINTS | QUANTITY |
|---|---|---|---|
| **Thermometer analogue** | Pt100 (IPRT) / CTP5000 / CTP6000 / CTP2000 | (0 / 50 / 100) °C | 3 |
| **Thermometer analogue** | Thermocouple K / N / J / E | (200 / 400 / 600) °C | 3 |
| **Thermometer analogue** | Thermocouple T | (100 / 200 / 300) °C | 3 |
| **Thermometer analogue** | Thermocouple precious S / R / B | (400 / 800 / 1200) °C | 3 |
| **Thermometer analogue** | Mechanical thermometer<br>(bimetal / gas pressure / tension) | Beginning / middle / end | 3 |
| **Room temperature sensors** | | (18 / 23 / 25) °C | 3 |
| **Thermometer digital** | CTP1500 | (0 / 50 / 100) °C | 3 |
| **Thermometer + transmitter** | Pt100 or thermocouple + transmitter<br>(e.g. TR32) | (0 / 50 / 100) %<br>of the transmitter range | 3 |

# Thermometer

| TYPE OF DEVICE UNDER TEST | TYPE | MEASURING POINTS | QUANTITY |
|---|---|---|---|
| **Thermometer with digital display (measuring chain) + resistance thermometer** | CTH6200 / CTH63X0 / CTH65X0 / CTH7000 / CTR2000 / CTR5000 / CTR3000 / CPH6600 / CPH7000 / other manufacturers | (0 / 50 / 100) °C | 3 |
| **Thermometer with digital display (measuring chain) + resistance thermometer** | CPH6400 | (0 / 25 / 50) °C | 3 |
| **Thermometer with digital display (measuring chain) + thermocouple base metal** | CTH65X0 / CTH63X0 / CTR3000 / other manufacturers | (200 / 400 / 600) °C | 3 |
| **Thermometer with digital display (measuring chain) + thermocouple noble metal** | CTH65X0 / CTH63X0 / CTR3000 / other manufacturers | (400 / 800 / 1200) °C | 3 |

# Data logger

| TYPE OF DEVICE UNDER TEST | TYPE | MEASURING POINTS | QUANTITY |
|---|---|---|---|
| **Data logger + resistance thermometer** | CPU5000 | (18 / 23 / 25) °C | 3 |
| **Data logger + resistance thermometer and / or thermocouple** | other manufacturers | (0 / 50 / 100) °C | 3 |

# Calibrators

| TYPE OF DEVICE UNDER TEST | TYPE | MEASURING POINTS | QUANTITY |
|---|---|---|---|
| **Infrared calibrator, Infrared display unit** | CTI5000 / CTR1000 | (100 / 300 / 400) °C | 3 |
| **Dry-well calibrator** | CTD9100-Zero | 0 °C | 1 |
| **Dry-well calibrator** | CTD9XX0-COOL | (-50 / 0 / 50 / 100 / 150 / 200) °C | 6 |
| **Dry-well calibrator** | CTD9XX0-165 / CTD9XX0-165-X | (-30 / 0 / 50 / 100 / 130 / 160) °C | 6 |
| **Dry-well calibrator** | CTD9100-200 | (50 / 75 / 100 / 125 / 150 / 200) °C | 6 |
| **Dry-well calibrator** | CTDXX00-375 | (50 / 100 / 200 / 250 / 300 / 375) °C | 6 |
| **Dry-well calibrator** | CTD9XX0-450 | (50 / 100 / 200 / 300 / 400 / 450) °C | 6 |
| **Dry-well calibrator** | CTDXX00-650 | (100 / 200 / 300 / 400 / 500 / 600) °C | 6 |
| **Dry-well calibrator** | CTD9100-1100 | (200 / 400 / 500 / 600 / 800 / 1000) °C | 6 |
| **Dry-well calibrator** | CTD4000-140 | (-20 / 0 / 50 / 75 / 100 / 135) °C | 6 |
| **Dry-well calibrator** | CTD9350-700 | (100 / 200 / 300 / 400 / 500 / 600) °C | 6 |

# Baths

| TYPE OF DEVICE UNDER TEST | TYPE | MEASURING POINTS | QUANTITY |
|---|---|---|---|
| **Micro calibration bath** | CTB9XX0-165 | (-30 / 0 / 50 / 100 / 130 / 150) °C | 6 |
| **Micro calibration bath** | CTB9100-225 | (50 / 100 / 120 / 150 / 175 / 200) °C | 6 |
| **Micro calibration bath** | CTB9100-225-X | (50 / 100 / 150 / 200 / 225 / 250) °C | 6 |
| **Micro calibration bath** | CTB9350-165 | (-30 / 0 / 50 / 100 / 130 / 150) °C | 6 |
| **Multi-function calibrator** | CTM9100-165 | Bath: (-30 / 0 / 50 / 100 / 130 / 150) °C<br>Block: (-20 / 0 / 50 / 100 / 130 / 150) °C<br>Surface: (0 / 20 / 40 / 60 / 80 / 100) °C<br>Infrared: (0 / 20 / 40 / 60 / 80 / 100) °C | 6<br>6<br>6<br>6 |
| **Multi-function calibrator** | CTM9350-165 | Bath: (-30 / 0 / 50 / 100 / 130 / 150) °C<br>Block: (-30 / 0 / 50 / 100 / 130 / 150) °C<br>Surface: (0 / 20 / 40 / 60 / 80 / 100) °C<br>Infrared: (0 / 20 / 40 / 60 / 80 / 100) °C | 6<br>6<br>6<br>6 |
| **Calibrators / Calibration baths** | Other manufacturers | Spread over the area of application | 6 |

# General information

Coefficient calculation requires the **customer's working range** (start and end) to be specified,
not to be confused with the **working range of the calibration device**.

# Revision

| TYPE OF DEVICE UNDER TEST | TYPE | CHANGE | VERSION |
|---|---|---|---|
| | | | |
| **Various** | Various | Merging models by using XX | May 2026 |
| **Room temperature sensors** | n/a | Definition of standard points (18 / 23 / 25) °C | May 2026 |
| **Thermometer digital** | CTP1500 | Addition | May 2026 |
| **Multi-function calibrator** | CTM9XXX-XXX | Expansion of test points for infrared and surface | May 2026 |
| **Micro calibration bath** | CTB9100-165 | Change of the measuring point from 160 °C to 150 °C | July 2025 |
| **Micro calibration bath** | CTB9350-165 | Addition | July 2025 |
| **Multi-function calibrator** | CTM9100-165 | Change of the bath measuring point from 160 °C to 150 °C | July 2025 |