

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

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**CMC for the field of measured quantity: Temperature**

| Ordinal number <sup>1</sup> | Calibrated quantity / Subject of calibration  | Nominal range |                | Parameter(s) of the measurand | Lowest stated expanded measurement uncertainty <sup>2</sup> | Calibration principle  | Calibration procedure identification <sup>3</sup> | Workplace |
|-----------------------------|---|---------------|----------------|-------------------------------|---|--|---|-----------|
|                             |   | min. unit     | max unit       |                               |   |  |   |           |
| 1*                          | Resistance thermometers Pt100   | 0 °C          | up to 200 °C   |                               | 0.32 °C   | Comparison with a reference thermometer in a dry block                             | KBP 5   |           |
| 2*                          | Indicating thermometers and temperature measuring chains  | 200 °C        | up to 400 °C   |                               | 0.54 °C   | Comparison with a reference thermometer in a dry block and in a horizontal furnace | KBP 15  |           |
|                             |   | 400 °C        | up to 650 °C   |                               | 0.32 °C   |  |   |           |
|                             |   | 650 °C        | up to 1,100 °C |                               | 0.54 °C<br>2.1 °C<br>2.8 °C                                 |  |   |           |
| 3*                          | Measuring chains – Simulation of electrical output signal:<br>– Type “K” thermocouples<br>– Resistance sensors<br>– current loops | -200 °C       | up to 1,000 °C |                               | 0.6 °C  | Comparison with a reference simulator of el. quantities                            | KBP 4.1   |           |
|                             |   | 1,000 °C      | up to 1,100 °C |                               | 0.7 °C  |  |   |           |
|                             |   | -200 °C       | up to 200 °C   |                               | 0.20 °C   |  |   |           |
|                             |   | 200 °C        | up to 600 °C   |                               | 0.34 °C   |  |   |           |
|                             |   | 600 °C        | up to 850 °C   |                               | 0.50 °C   |  |   |           |
|                             |   | 0 mA          | up to 4 mA     |                               | 3 µA  |  |   |           |
|                             |   | 4 mA          | up to 12 mA    |                               | 6 µA  |  |   |           |
|                             |   | 12 mA         | up to 25 mA    |                               | 8 µA  |  |   |           |

<sup>1</sup> Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

<sup>2</sup> The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02 M a part of CMC and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the measured value. The uncertainty value stated herein is based on the best conditions achievable by the laboratory; the uncertainty value of a specific calibration may be higher depending on the conditions of such a calibration. For identical extreme values of adjacent ranges, the lower uncertainty value always applies.

<sup>3</sup> If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

