

VACUUBRAND Devices

Information

The calibration of vacuum gauges is performed in the accredited calibration laboratory of VACUUBRAND GMBH + CO KG at the Wertheim location. The calibration laboratory is accredited by DAkkS in accordance with DIN EN ISO/IEC 17025:2018. The calibration certificates thus document the metrological traceability to national standards for the representation of units in accordance with the International System of Units (SI).

The vacuum gauges are calibrated by direct comparison with a reference standard according to DIN ISO 3567:2015 from 10^{-3} mbar to 1100 mbar, and upon customer request in the measuring range from 1100 mbar to 1300 mbar using an in-house procedure. For Pirani vacuum gauges, ISO 19685:2017 is additionally considered, and for capacitive membrane vacuum gauges, ISO 20146:2019 is taken into account. ISO 27893:2011 is applied to determine the measurement uncertainty. The pressure medium is nitrogen.

Standard Calibration

In a standard calibration, the calibration range is calibrated according to the measuring range specified in the operating instructions of the calibration item. This applies only within the accredited range from 10^{-3} mbar to 1300 mbar.

The calibration laboratory uses 5 measuring points per pressure decade at the points 1, 2, 4, 6 and 8.

Performance of Calibration Service

The calibration item is calibrated in the condition as delivered.

If, according to the assessment of the calibration laboratory, the calibration item can be improved by adjusting the alignment points, an adjustment will be performed after the initial calibration. Subsequently, a final calibration is carried out. The results of the initial and final calibration as well as information about the adjustment are documented in the calibration certificate.

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Calibration Item

- 1 Type designation:
- 2 Serial number:
- 3 Installation position (axis / connection flange):
- 4 Adjustment of the calibration item: No adjustment Can be performed without consultation after completed initial calibration
- 5 Language selection for the calibration certificate:
- 6 Address in calibration certificate:

- 7 Optional: Recalibration interval in calibration certificate:
- 8 Additional information for the calibration certificate e.g. test equipment number:

If you would like a customer-specific calibration, please additionally fill out the following points:

- 9 Desired calibration range (hPa, mbar]:
- 10 Specification of special points: