

Calibration of the BlowerDoor measuring systems

Ensure the high precision of the BlowerDoor measuring technology through regular calibration. We offer either manufacturer's calibration or calibration with a DAkkS certificate for both the pressure gauges and the BlowerDoor measuring fans.

► PRESSURE GAUGES

In order to meet the increasing requirements of national and international standards, our calibration laboratory has been accredited in accordance with DIN EN ISO/IEC 17025 since 2015. Our calibrations include prior maintenance and functional testing as well as adjustment of the pressure gauges if necessary. Appointments are not necessary: you plan the period, we calibrate at attractive conditions.



Manufacturer's calibration

The latest generation of our pressure gauges has an outstanding accuracy of $\pm 0.9\%$ of pressure reading. The reference standards applied by BlowerDoor are based on national and international standards. For each differential pressure channel, we calibrate 21 measuring values in a measuring range from $\pm 2,450$ Pa (DG-1000) respectively 25 measuring values in a measuring range from $\pm 1,220$ Pa (DG-700).

The pressure gauges receive an incoming calibration and an adjustment. Any deviations from the target value are corrected and documented in the final outgoing calibration. The preceding functional test includes testing the pressure sensors, the control unit and the overlay. Older pressure gauges receive a free firmware update.

Recommended calibration intervals:

- DG-700 / DG-1000: 2 years
- APT: annually
- Analog Pressure Gauges: 2 years

The national regulations and the requirements of the applicable measuring standard must be observed.

Please note:

The analog pressure gauges do not meet the required measuring accuracies of ISO 9972. An exchange in case of a defect or deviations is only possible to a limited extend, as these analog gauges are no longer produced. We recommend an upgrade to the digital [pressure gauge DG-1000](#).

- Prices see www.blowerdoor-unlimited.com

Calibration with DAkkS certificate



Our calibration with a DAkkS certificate is conducted according to a standard defined by the German accreditation body (DAkkS). The national metrology institute, Physikalisch-Technische Bundesanstalt (PTB), provides the national standards indicated with the highest possible accuracy. The maintenance of the testing devices, the calibration process, and the organization

of the lab are accredited according to DIN EN ISO/IEC 17025. Like all DAkkS-accredited labs, our calibration lab is tested by an internal audit and by DAkkS at regular intervals.

In the calibration of the pressure gauges according to DKD-R 6-1, procedure A, we calibrate a minimum of 15 points in a measuring range of $\pm 1,200$ Pa (DG-700) respectively $\pm 2,450$ Pa (DG-1000). If requested by the client, we can measure more points. The calibration cycle is repeated four times. All our calibrations include

a functional test and the adjustment of the measuring device. The firmware of older DG-700 devices will be updated free of charge.

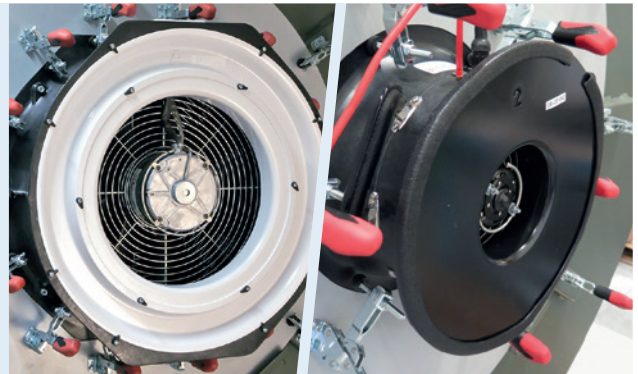
The calibration certificate contains the information as to whether your measuring device fulfills or does not fulfill the requirements of the standards ISO 9972,

FD P50-784 and RE2020 (statement of conformity). The decision criterion for conformity is based on Regulation 4.2.1 of ILAC-G8:09/2019. Please let us know if you would like a different decision criterion: We will be happy to provide you with a customised quote.

► Prices see www.blowerdoor-unlimited.com

► BLOWERDOOR FANS

The manufacturer's calibration of the BlowerDoor measuring fans is carried out on request at our calibration stand in Springe. If you require a calibration with a DAkkS certificate, we will carry this out on our test stand in southern Germany, which is calibrated by the Physikalisch-Technische Bundesanstalt. Please contact us in advance.



Manufacturer's calibration (1-point)

We offer manufacturer's calibration (1-point) for the measuring fans of BlowerDoor Standard (model 4) and BlowerDoor MiniFan (model DuctBlaster) according to the manufacturer's specification. One measured value is calibrated per measuring ring (open fan as well as ring A–E or 1–4). The requirement of ISO 9972 (measuring accuracy $\pm 7\%$) is assessed. You will receive a calibration certificate.

A previous basic maintenance and functional test is included. We calibrate according to your appointment request. Your registration is desired to ensure short calibration times of max. five working days.

Recommended calibration interval:

- BlowerDoor Standard/BlowerDoor MiniFan: 4 years
- Prices & registration see www.blowerdoor.com

Calibration with DAkkS certificate

Since 2017 we offer a calibration with DAkkS certificate for the measuring fans BlowerDoor Standard (model 4 and model 3) as well as BlowerDoor MiniFan (model DuctBlaster) on our test stand calibrated by the Physikalisch-Technische Bundesanstalt. For each measuring ring (open fan as well as ring A–E or 1–4) three measured values are calibrated. The measuring accuracy of the BlowerDoor measuring fans of $\pm 4\%$ (open fan as well as rings A–C or 1–4) and $\pm 5\%$ (rings D and E) is assessed. You will receive a DAkkS certificate.

The previous basic maintenance and functional test is included. We calibrate according to monthly calibration dates. Registration is required.

- Calibration dates, prices & registration see www.blowerdoor.com