

# Calibration of BlowerDoor Pressure Gauges

Ensure the high precision of BlowerDoor measurement technology through regular calibration. Both the factory calibration and the calibration with DAkkS certificate are subject to high quality standards at BlowerDoor. Appointments are not necessary for the calibration of pressure gauges: you plan the time period, we calibrate immediately at attractive conditions. The calibration results are aligned with the requirements from ISO 9972, FD P50-784, and RE2020.

## Manufacturer's calibration

The accuracy of our pressure gauges is  $\geq 0.9\%$ . The reference standards applied by BlowerDoor are based on national and international standards. For each differential pressure channel, we calibrate 24 measuring values in a measuring range from  $\pm 1,200$  Pa (DG-700) respectively 20 measuring values in a measuring range from  $\pm 2,450$  Pa (DG-1000).

At BlowerDoor GmbH, the incoming calibration is followed by the adjustment of the pressure gauges so that deviation errors can be corrected as necessary. The outgoing calibration documents the optimized measuring accuracy of the adjusted pressure gauge.

The preceding functional test also checks the tightness of the pressure sensors, the control of the BlowerDoor fan, and the overlay. The firmware of older pressure gauges is updated free of charge.

Please note: The analog pressure gauges do not meet the required measuring accuracies of EN ISO 9972. An exchange in case of a defect or deviations is only possible to a limited extent, as these analog gauges are no longer produced. We recommend an upgrade to the digital **pressure gauge DG-1000**.

### Recommended calibration intervals:

- ▶ DG-700/DG-1000: 2 years
  - ▶ APT: 1 year
  - ▶ Analog pressure gauges: 2 years
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- ▶ Information about our calibration see [www.blowerdoor.com/calibration](http://www.blowerdoor.com/calibration)
  - ▶ See prices [www.blowerdoor-unlimited.com](http://www.blowerdoor-unlimited.com)



## Calibration with DAkkS certificate



Since April 2015, our laboratory has been accredited by the Deutsche Akkreditierungsstelle GmbH (DAkkS). The calibration with DAkkS certificate is performed according to the guideline DKD-R 6-1. 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 EN 17025. Like all DAkkS-accredited labs, our calibration lab is tested by an internal audit and by DAkkS at regular intervals. In the calibration with DAkkS certificate according to DKD-R 6-1 procedure A, we calibrate a minimum of 15 values per differential pressure channel 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.

As the only supplier in our sales area, we carry out a functional test, an incoming calibration and – if necessary – an adjustment of the measuring devices before calibration.

# Calibration of BlowerDoor fans

## 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.

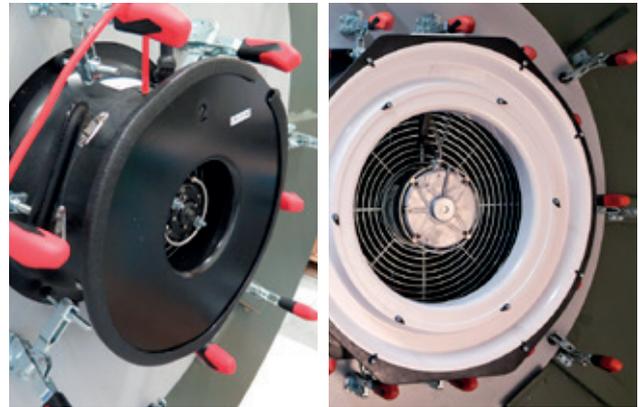
- ▶ Recommended calibration interval: 2 years
- ▶ Prices & registration see [www.blowerdoor.com/calibration](http://www.blowerdoor.com/calibration)

## Manufacturer's calibration (3-point)

Since 2017, we offer manufacturer's calibration (3-point) for the BlowerDoor Standard (model 4 and model 3) and BlowerDoor MiniFan (model DuctBlaster) measuring fans 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) 3 measured values are calibrated. The measuring accuracy of the BlowerDoor measuring fan of  $\pm 4\%$  (open blower as well as ring A–C or 1–4) and  $\pm 5\%$  (rings D and E) is assessed. You will receive a calibration certificate.

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

- ▶ Recommended calibration interval: 4 years
- ▶ Prices & registration see [www.blowerdoor.com/calibration](http://www.blowerdoor.com/calibration)
- ▶ Calibration dates see [www.blowerdoor.com/calibration/blowerdoor-fans](http://www.blowerdoor.com/calibration/blowerdoor-fans)



## 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) 3 measured values are calibrated. The measuring accuracy of the BlowerDoor measuring fan of  $\pm 4\%$  (open blower as well as ring 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.

- ▶ Prices & registration see [www.blowerdoor.com/calibration](http://www.blowerdoor.com/calibration)
- ▶ Calibration dates see [www.blowerdoor.com/calibration/blowerdoor-fans](http://www.blowerdoor.com/calibration/blowerdoor-fans)