



Calibration of Your Pressure Gauges

In addition to offering high-quality manufacturer's calibration, BlowerDoor GmbH as a DAkkS-accredited lab according to EN 17025 also offers calibrations with a DAkkS-certificate. The substantial investment in the accreditation of our calibration lab was made in order to meet the increasingly stringent requirements of national and international standards. The calibrations of your pressure gauges at BlowerDoor GmbH include an adjustment of the pressure gauges. It is not necessary to make appointments for the calibration of your pressure gauges. You plan when to calibrate and adjust and we guarantee favorable prices at all times.

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 $\pm 1,220$ 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.

Calibration intervals referred to manufacturer's recommendations:

DG-700: 2 years | DG-1000: 2 years | APT: 1 year
Analog Pressure Gauges: 2 years

Calibration with DAkkS-Certificate



Our calibration with 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 European Industrial Standard 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 procedure A, we calibrate a minimum of 15 values 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 with DAkkS-certificate include a functional test and the adjustment of the measuring device. The firmware of older DG-700 devices will be updated free of charge.



Calibration of Your BlowerDoor Fans

The manufacturer's calibration as well as the calibration with DAkkS-certificate are conducted by an accredited lab and based on their traceability to international standards (EN 17025) provide maximum accuracy. We calibrate all BlowerDoor measuring fans using a test stand designed and implemented by BlowerDoor GmbH, which has been calibrated by the Physikalisch-Technische Bundesanstalt (PTB), Germany's national metrology institute, with an accuracy of $\pm 1\%$. This level of accuracy is necessary in order to attest conformity* of the measuring fan of up to $\pm 4\%$. Per flow ring (open fan and rings A–E or 1–4), the calibration includes testing three values each in the lower, mid-level and upper flow rate measuring range in a chamber test stand at a pressure differential of 50 Pa.

The structure of the set of five flow rings, with one aperture each, is particularly beneficial to the accuracy: The position of the pressure sensor as well as the geometry of the fan and the rings have been developed by experts in order to create a stable and reproducible velocity profile that, as far as possible, is independent from the counter pressure (building pressure diffe-



rential). Serial tests have shown that, even after long use, BlowerDoor fans feature high measuring accuracy which clearly exceeds the minimum legal requirements. A previous fan check forms part of each fan calibration.

BlowerDoor GmbH offers the manufacturer's calibration as well as the calibration of measuring fans with DAkkS-certificate once a month for all BlowerDoor fan models (BlowerDoor Standard model 4 and model 3, BlowerDoor MiniFan model DuctBlaster). Your binding registration for calibration is obligatory. Please contact us by phone, e-mail or visit our website www.blowerdoor.com.



BlowerDoor flow rings until 1991 (left), BlowerDoor flow rings since 1992 (middle), set of flow rings BlowerDoor MiniFan since 2014 (right)



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Calibration intervals referred to manufacturer's recommendations:

BlowerDoor Standard

Model 4: 4 years | Model 3: 4 years

BlowerDoor MiniFan

Model DuctBlaster: 4 years

* Conformity indicates the accuracy of the measuring fan determined for the analysis of faults and errors stated by the calibration lab. This increases the validity of the calibration.