halstrup walcher

# AD/BA 1000

| | |
|---|---|
| Margin of error<br>(0.3 Pa margin of error for the reference) | ± 1 % of measurement range<br>Reference ± 0.5 hPa with respect to sea level |
| Temperature coefficient span | 0.04 %/K (10..60 °C) |
| Calibration temperature | 22 °C |
| Operating temperature | 10..60 °C |
| Storage temperature | -10..70 °C |
| Signal stability | 0.3 hPa/year |
| Reduction | 0..850 m above sea level<br>(please indicate when placing your order) |
| Power consumption | approx. 3 VA |
| Cable glands | 2 x PG 7 (housing without display)<br>2 x PG11 (housing with display) |
| Protection class | IP 54 |
| Weight | approx. 0.6 kg |
| Pressure ports [1] | for tubing NW 6 mm |
| Certificates | CE |

[1] AD 1000: 1 pressure port, BA 1000: no pressure port

| Product | Measurement range | A |
|---|---|---|
| AD 1000 | 0..50 kPa | 50A |
| | 0..100 kPa | 100A |
| | 80..120 kPa | 80A |
| | 90..110 kPa | 90A |
| | 100..0 kPa | 0A |
| BA 1000 | 80..120 kPa | 80B |
| | 85..115 kPa | 85B |
| | 90..110 kPa | 90B |
| | 95..115 kPa | 95B |

| Output | B |
|---|---|
| 0..10 V ($R_L$ ≥ 2 kΩ) | 1 |
| 0..20 mA ($R_L$ ≤ 500 Ω) | 0 |
| 4..20 mA ($R_L$ ≤ 500 Ω) | 4 |

| Power supply | C |
|---|---|
| 24 VDC, +20 %/-15 % | 24D |
| 24 VAC, +6 %/-15 % (50/60 Hz) | 24A |
| 115 VAC, +6 %/-15 % (50/60 Hz) | 115 |
| 230 VAC, +6 %/-15 % (50/60 Hz) | 230 |

| LCD | D |
|---|---|
| none | 0 |
| 3 ½ digit | 3 |

| Reduction [2] | E |
|---|---|
| none | 0 |
| please indicate in meters (e.g. 2 m) [2] | |

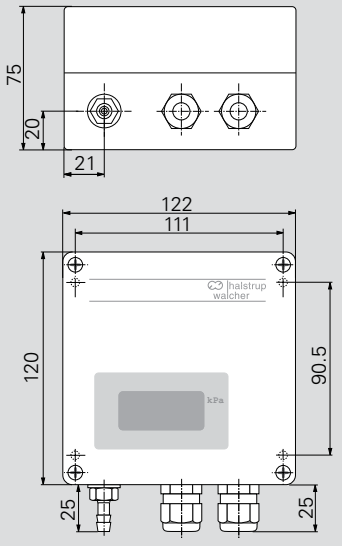
[2] only for BA 1000

| Order code | A | B | C | D | E |
|---|---|---|---|---|---|
| AD-BA 1000 | – | – | – | – | – |

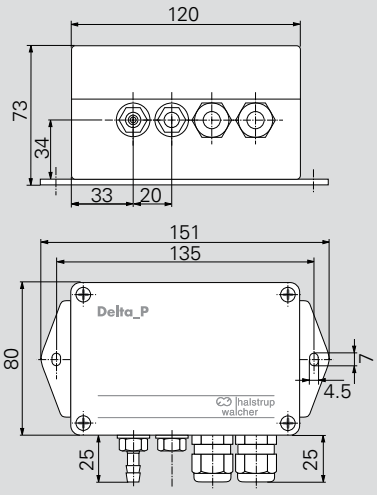

## Features

- Precise absolute pressure transmitter
- AD: for absolute pressure
- BA: for atmospheric pressure
- High level of accuracy and long-term stability
- Little zero-point drift or hysteresis; largely independent of temperature
- The size of the optional display can be adjusted (reduced) in the factory to correspond to the height of the installation site, see DIN ISO 2533 (only BA 1000)

**AD/BA 1000 with display**




**AD/BA 1000 without display**




AD 1000: 1 pressure port
BA 1000: no pressure port

# ABSOLUTE PRESSURE TRANSMITTERS

Absolute pressure measurements are essential for determining atmospheric pressure. Here, the current pressure is compared with a vacuum. Atmospheric pressure measurements record (weather-dependent) ambient pressures, i.e. approx. 1 013.25 hPa ± 50 hPa. Absolute pressure measurements are also able to compare other pressure values to the vacuum – depending on the selected pressure range (e.g. 75 hPa).

| **Product** | **AD 1000** | **BA 1000** |
|---|---|---|
| **Details on** | **p. 32** | **p. 32** |
| |  | |
| **Features** | Absolute pressure transmitter | Atmospheric pressure transmitter |
| **Measurement range** | 0 .. 50 kPa<br>0 .. 100 kPa<br>80 .. 120 kPa<br>90 .. 110 kPa<br>100 .. 0 kPa | 80 .. 120 kPa<br>85 .. 115 kPa<br>90 .. 110 kPa<br>95 .. 115 kPa |
| **Margin of error** | ± 1 % of measurement range<br>Reference ± 0.5 hPa<br>with respect to sea level | |
| **Display** | 3 ½ digit (optional) | |

# ACCESSORIES

| | **Order no.** |
|---|---|
| DAkkS calibration certificate, German (see p. 42) | 9601.0003 |
| DAkkS calibration certificate, English (see p. 42) | 9601.0004 |
| ISO factory calibration certificate | 9601.0002 |
| Connecting components (tubing etc.) | see p. 11 |

# APPLICATION

Weather forecasting is one area where it is vital to be able to measure atmospheric pressure accurately. Air-conditioning systems, too, often measure the current level of atmospheric pressure in order to avoid excessive differences in pressure, e.g. in entrance areas/air curtains.

Precise measurements of absolute pressure are also vital in many scientific and production processes – wherever it is essential to have a (weather-independent) process pressure value. This is frequently required, e.g. for pressure compensation of volume flow measurements.