halstrup walcher

AD / BA 1000

Measurement accuracy [1]	± 1 % of measurement range
Temperature coefficient span	0.04 % / K (10 .. 60 °C)
Calibration temperature	22 °C ± 4 K
Operating temperature	10 .. 60 °C
Storage temperature	-10 .. 70 °C
Signal stability	0.3 hPa / year
Reduction	0 .. 850 m above sea level (only BA 1000) (please indicate when placing your order)
Power consumption	approx. 3 VA
Cable glands	2 x PG 7 (housing without display) 2 x PG11 (housing with display)
Protection class	BA 1000: IP53; AD 1000: IP54
Weight	approx. 0.6 kg
Pressure ports [2]	for tubing NW 6 mm
Certificates	CE / UKCA

[1] Reference ± 0.5 hPa with respect to sea level

[2] 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 ($R_L \geq 2$ kΩ)	1
0 .. 20 mA ($R_L \leq 500$ Ω)	0
4 .. 20 mA ($R_L \leq 500$ Ω)	4

Power supply	C
24 V DC, +20 % / -15 %	24D
24 V AC, ± 10 % (50/60 Hz)	24A
115 V AC, ± 10 % (50/60 Hz)	115
230 V AC, ± 10 % (50/60 Hz)	230

LCD	D
none	0
3 ½ digit	3

Reduction [3]	E
none	0
please indicate in meters (e.g. 2 m) [3]	

[3] only for BA 1000

Calibration certificate	F
none	0
Factory calibration	W
Calibration according to DKD-R 6-1	D

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

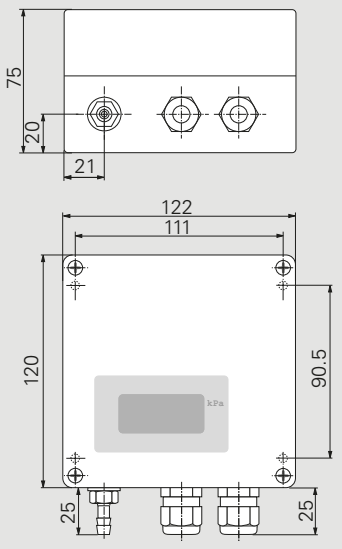
Accessories: see following page

Picture: Version with display

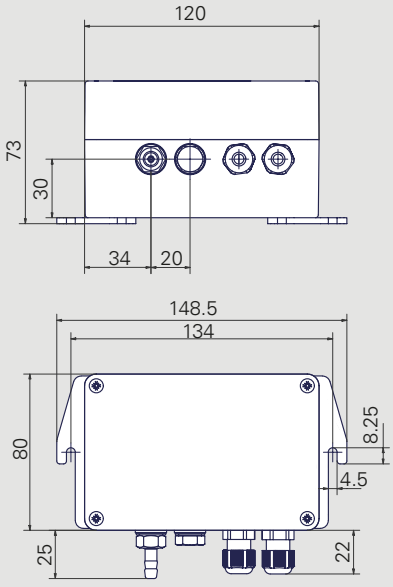
Features

- 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

All dimensions in mm

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**
		
Features	Absolute pressure transmitter	Atmospheric pressure transmitter
Measurement range	0 .. 50 kPa 0 .. 100 kPa 80 .. 120 kPa 90 .. 110 kPa 100 .. 0 kPa	80 .. 120 kPa 85 .. 115 kPa 90 .. 110 kPa 95 .. 115 kPa
Measurement accuracy [1]	± 1 % of measurement range	
Display	3 ½ digit (optional)	

[1] Reference ± 0.5 hPa with respect to sea level

ACCESSORIES

	Order no.
Calibration certificate (DKD-R 6-1)	9601.0003
Factory calibration certificate (ISO 9001)	9601.0002
Silicone tubing ID 5 mm, OD 9 mm, red (please state length required)	9601.0160
Silicone tubing ID 5 mm, OD 9 mm, blue (please state length required)	9601.0161
Norprene tubing (please state length required)	9061.0132
Y-piece for tubing	9601.0171

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.