halstrup walcher

AD / BA 1000

Margin of error	± 1 % of measurement range 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 (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	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 ($R_L \geq 2$ 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, + 6 % / - 15 % (50 / 60 Hz)	24A
115 V AC, + 6 % / - 15 % (50 / 60 Hz)	115
230 V AC, + 6 % / - 15 % (50 / 60 Hz)	230

LCD	D
none	0
3 ½ digit, see foto	3
4 ½ digit	4

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

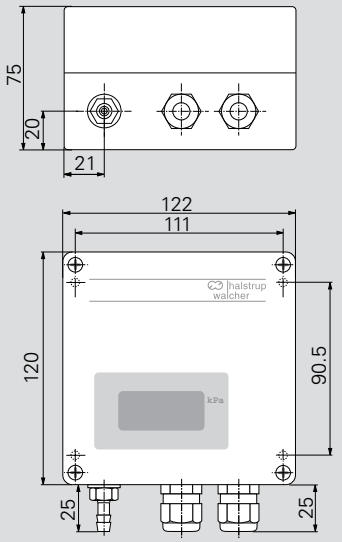
[2] only for BA 1000

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

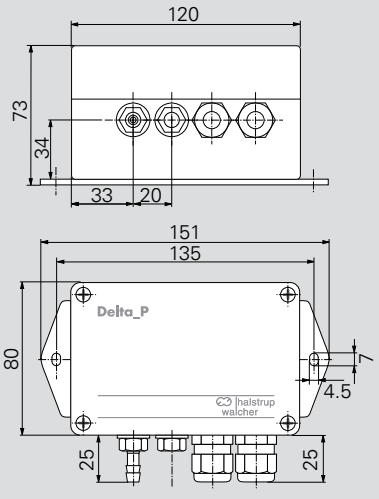
Features

- 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. While atmospheric pressure measurements are only able to record (weather-dependent) ambient pressure, i.e. approx. 1 013.25 hPa ± 50 hPa, *"traditional"* measurements of absolute pressure are also able to compare other pressure values, e.g. 0.75 hPa, to the vacuum depending on the selected pressure range.

	AD 1000	**BA 1000**
Details on	**p. 34**	**p. 34**
		
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
Margin of error	± 1 % of measurement range Reference ± 0.5 hPa with respect to sea level	
Display	3 ½ digit, see foto (optional) 4 ½ digit (optional)	

ACCESSORIES

	Order no.
DAkkS calibration certificate, German	9601.0003 (see p. 41)
DAkkS calibration certificate, English	9601.0004 (see p. 41)
ISO factory calibration certificate	9601.0002
Connecting components (tubing etc.)	see p. 15

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 where it is essential to have a (weather-dependent) process pressure value, e.g. frequently required for pressure compensation of volume flow measurements.