

# DAA / DAV - Transducteur de pression, de précision, pour hautes températures, ATEX

## DAA / DAV - Precision pressure transducer, for high temperatures, ATEX

**Description** Pressure transducer in compact and robust stainless steel housing with piezo-resistive measuring element. Factory-made calibration of zero point and range is possible.

**Media** compressed air, non-corrosive gases or liquids

**Overpressure** max. 3x full scale, min. 3 bar, for DAA-D4/D6 max. 850 bar and DAA-E1 max. 1500 bar

**Supply voltage** 9...33 V DC at current signal, 15...30 V DC at voltage signal, residual ripple 5%, reverse voltage protection, short-circuit-proof

**ATEX version** only current signal 10...30 V DC, max. 1 W, as per EN 50.014 / EN 50.020: 1974 A1...A5, Atex 2640-1

**Electrical connector** plug according to DIN 43650, with coupling socket

**Output signal** 4...20 mA: max. power consumption 260 mW, 0...10 V: max. power consumption 50 mW

**Linearity/Hysteresis** < 0.1% FS

**Temperature sensitivity** **Repeatability** < 0.1% FS **Long-term stability** < 0.1% FS, < 0.5% FS at version up to 500 mbar  
 < 0.02% FS per °C/K, < 0.06% FS at version up to 2 bar per °C/K, at range of 0 °C to 70 °C / 32 °F to 158 °F  
 < 0.1 % FS at version up to 500 mbar per °C / K, at range of 0 °C to 70 °C / 32 °F to 158 °F

**Response time** 1 ms for 10...90% of pressure range

**Vibration resistance** 10 g at 5...500 Hz

**Mounting position** any

**Material** Body/Diaphragm: stainless steel 316L, material no. 1.4435 O-rings: FKM, optionally EPDM



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**-1...1000 bar, accurate to 0.1 %  
compressed air or gases**

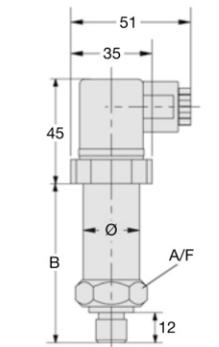
Dimensions			Accuracy	Measurement range	Order number	Measurement range	Order number
B	Ø	A/F	%	mbar / bar	4-20 mA	mbar / bar	4-20 mA
mm	mm	mm					



Pressure transducer				G¼ male, SST, overpressure with angular coupling socket, 4-20 mA	DA
73	24	27	0.1	0... 50 mbar	<b>DAA-B5H</b>
				0... 100 mbar	<b>DAA-C1H</b>
				0... 160 mbar	<b>DAA-C2H</b> 0... 1 bar
				0... 250 mbar	<b>DAA-C3H</b> 0... 1 bar
				0... 400 mbar	<b>DAA-C4H</b> 0... 2 bar
				0... 600 mbar	<b>DAA-C6H</b> 0... 4 bar
				0... 1. bar	<b>DAA-01H</b> 0... 6 bar
				0... 1. bar	<b>DAA-02H</b> 0... 10 bar
				0... 2. bar	<b>DAA-03H</b> 0... 16 bar
				0... 4. bar	<b>DAA-04H</b> 0... 25 bar
				0... 6. bar	<b>DAA-06H</b> 0... 40 bar
					0... 60 bar
					0... 100 bar
					<b>DAA-E1</b>

### Special options, add the appropriate letter or number

0-10 V output signal	not for  ATEX version	DAV-...
deviant measurement range	to be indicated on order	DA-...XX
absolute pressure range	from 50 mbar on	DA-...A
vacuum	0... -1 bar	DA-...V
-Atex version	II 1G Ex ia IIC T6	DAA-...EX
0.25 % linearity	for 100 mbar up to 600 bar for 1000 bar	DA-...G DA-...E1G
-25 to +100 °C/-13 to 212 °F	media temperature compensated up to 85 °C / 185 °F / T4	DA-...S
-25 to +150 °C/-13 to 302 °F	media temperature compensated up to 85 °C / 185 °F / T3	DA-...T
flush-mounted diaphragm	connection thread G½, also for vacuum, up to 600 bar	DA-...F
G½ male	connection thread	DA-...04
EPDM elastomer		DA-...E
silicone-free oil-refill		DA-...X32



version	B (mm)
standard	73
standard 150 °C	100
Ex	122
Ex, T3	149

