

18S Allfluid electronic pressure sensor

- 0 ... 800 bar
Port size: G1/4
- Robust sensor for hydraulic applications
- Small, space saving construction
- Robust stainless steel housing
- High overpressure
- Temperature compensated
- 3-wire technology (0 ... 10 V)
- 2-wire technology (4 ... 20 mA)
- Excellent long-term stability
- Stainless steel measuring element not oil-filled



Technical features

Medium:
For neutral and aggressive gases or fluids

Operating pressure:
0 ... 800 bar (0 ... 11603 psi)
Port size:
G1/4

Supply voltage:
12 ... 30 V d.c. (current output)
15 ... 30 V d.c. (voltage output)

Residual ripple (max.):
10% (within supply voltage) at 50 Hz

Output signal:
4 to 20 mA (2-wire technology)
0 to 10 V (3-wire technology)
Frequency output on request

Electrical connection:
M12 x 1

Mounting position:
Optional

Load resistance:
See diagram

Measuring range:
Protected/short-circuit proof
See table below

Linearity:
± 0,5% of full scale (FS)

Hysteresis:
< ± 0,1% (depending on measuring range)

Interference emission:
EN 50081-1

Interference immunity:
EN 50082-2

Shock protection:
30 g, xyz, DIN EN 60068-2-27

Vibration protection:
3 g, 5 ... 500 Hz, xyz,

DIN EN 60068-2-6

Degree of protection :
IP65 (with mounted plug)



Weight:
0,07 kg (0.15 lbs)

Temperature sensitivity:
Zero point < ± 0,4% of final value pro 10° Kelvin - typ.
Range < ± 0,2% of final value pro 10° Kelvin - typ.

Ambient/Media temperature:
Ambient:
-20 ... +85°C (-4 ... +185°F)
-40 ... +110°C (-40 ... +230°F)*
Media:
-20 ... +85°C (-4 ... +185°F)
-40 ... +125°C (-40 ... 257)*
* on request
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:
Housing: Stainless steel 1.4571/1.4542
Sensor: Stainless steel membrane 1.4542

Technical data

Symbol	Measuring range (relative pressure)		Maximum over pressure		Output signal		Model #1)
	(bar)	(psi)	(bar)	(psi)	(mA)	(V)	
	0 ... 10	145	40	580	4 ... 20	–	0862170
	0 ... 25	362	50	725	4 ... 20	–	0862370
	0 ... 100	1450	200	2900	4 ... 20	–	0862470
	0 ... 250	3625	500	7251	4 ... 20	–	0862670
	0 ... 400	5801	750	10877	4 ... 20	–	0862770
	0 ... 800	11603	1000	14503	4 ... 20	–	0862970
	0 ... 10	145	40	580	–	0 ... 10	0862180
	0 ... 25	362	50	725	–	0 ... 10	0862380
	0 ... 100	1450	200	2900	–	0 ... 10	0862480
	0 ... 250	3625	500	7251	–	0 ... 10	0862680
	0 ... 400	5801	750	10877	–	0 ... 10	0862780
	0 ... 800	11603	1000	14503	–	0 ... 10	0862980

*1) Connector not in scope of delivery. Please see page 2.

