

ASSC Series

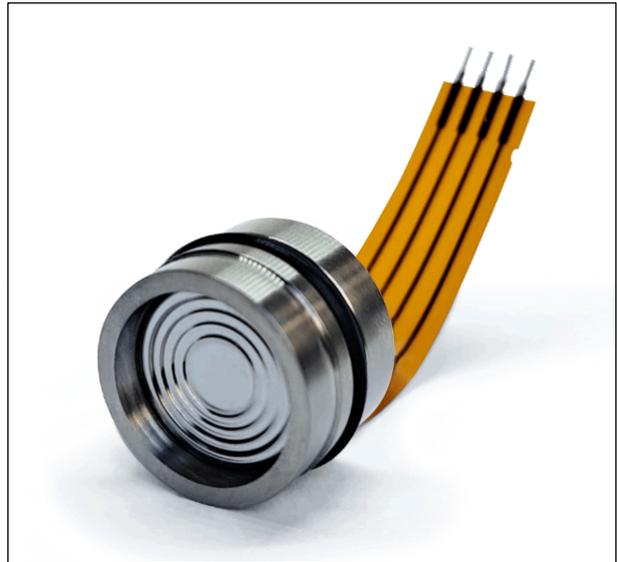
Compensated stainless steel pressure sensors

FEATURES

- Absolute, gage or vacuum/gage pressure ranges
- Calibrated and temperature compensated
- Rugged stainless steel isolated package

SERVICE

Wetted materials: Stainless steel 316/316L



SPECIFICATIONS

Maximum Ratings

Supply current 2 mA

Temperature ranges

Storage -40...125 °C

Operating -40...125 °C

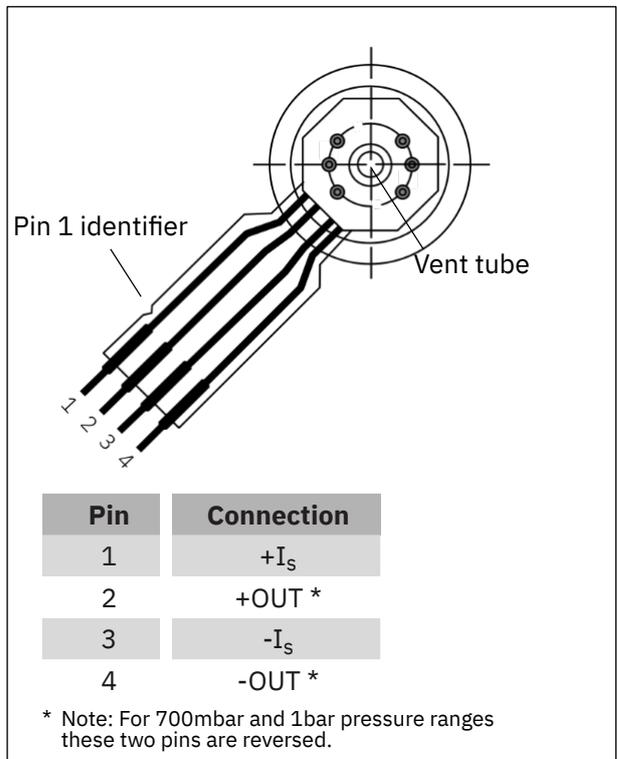
Compensated 0...50 °C

Insulation resistance 250 MΩ @250 V_{DC}

Proof Pressure⁵ 2x rated pressure

Burst pressure⁶ 5x rated pressure

ELECTRICAL CONNECTIONS



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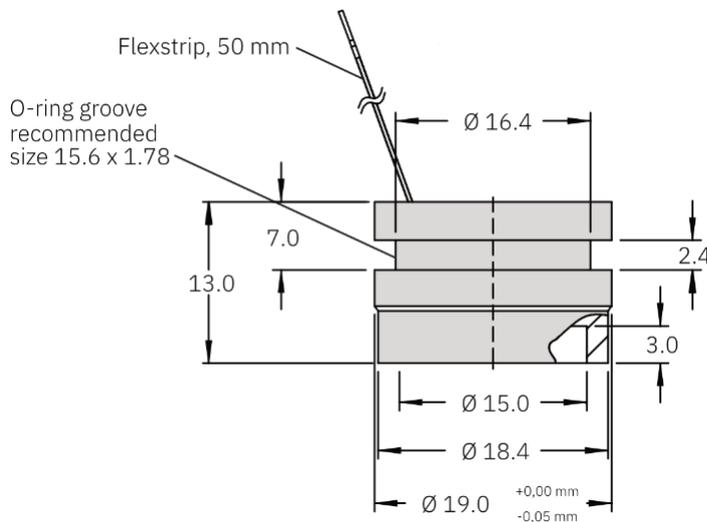
PERFORMANCE CHARACTERISTICS

$I_s=1.5 \text{ mA}_{DC}$, $T_A=25 \text{ }^\circ\text{C}$

Parameter		Min.	Typ.	Max.	Unit
Zero pressure offset			± 1.0	± 2.0	mV
Full Scale Span ¹	ASSC-M700	60			mV
	All others	70			
Non-linearity ²	ASSC-M350			± 0.3	%FSO
	All others		± 0.15	± 0.2	
Repeatability			± 0.03	± 0.075	%FSO
Hysteresis ²			± 0.03	± 0.075	%FSO
Thermal effects ³	Offset		± 0.5	± 1.0	%FSO
	Span		± 0.5	± 1.0	
Long term stability ⁴	$\leq 1 \text{ bar}$		± 0.15	± 0.20	%FSO
	$> 1 \text{ bar}$		± 0.1	± 0.15	
Input impedance		2		8	k Ω
Output impedance		3.5		6	k Ω

DIMENSIONAL DRAWING

ASSC...1 (weld ring)



CAUTION! Do not touch diaphragm!

Mass: approx. 17g
Dimensions in mm

Note: Threaded versions are available on request. Please contact All Sensors for further information.

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ORDERING INFORMATION

Series	Pressure Range	Pressure Mode	Housing
ASSC-	M200	0...200 mbar	A- Absolute *
	M350	0...350 mbar	
	M700	0...700 mbar	G- Gage
	M700(V)	-700...700 mbar *	
	B001	0...1 bar	V- Vacuum/Gage
	B001(V)	-1...1 bar *	
	B002	0...2 bar	
	B002(V)	-1...2 bar *	
	B3x5	0...3.5 bar	
	B3x5(V)	-1...3.5 bar *	
	B007	0...7 bar	
	B007(V)	-1...7 bar *	
	B010	0...10 bar	
	B010(V)	-1...10 bar *	
	B020	0...20 bar	
	B020(V)	-1...20 bar *	
	B035	0...35 bar	
	B035(V)	-1...35 bar *	

* Vacuum/Gage only *from 700 mbar upwards only

Order code example: ASSC-M700A-1

All devices have an MOQ of 10 pieces.

Note: Custom pressure ranges and other fittings are available on request. Please contact All Sensors for further information.

Specification notes:

- 1 Span is the algebraic difference between the output voltage at full scale pressure and the output at zero pressure. Full scale span is ratiometric to the supply current.
- 2 Non-linearity is based on Best fit Straight Line from the zero to the full scale pressure. Hysteresis is the maximum output difference at any point within the operating pressure range for increasing and decreasing pressure.
- 3 All specifications shown are relative to 25 °C.
- 4 Long term stability over 1 year.
- 5 The maximum pressure that can be applied without changing the transducers performance or accuracy.
- 6 The maximum pressure that can be applied to a transducer without rupture of either the sensing element or transducer case.
- 7 Insulation resistance measured at rH ≤ 65% and ambient temperature ≤ 35 °C.

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