



Model PSC628 Wet / Wet Differential Pressure Transducer For Industry and General Purpose Industrial Applications

PSC628 differential pressure sensor utilizes a single MEMS pressure die isolated by two stainless steel diaphragms in a low profile form factor that provides media isolation and robust construction. The structure is well suited for use in harsh media environments and chemical applications.

ASIC digital compensation and temperature correction provides high accuracy and a wide operating temperature range.

- **Differential Pressure**
- **ASIC Temperature Compensated**
- **Wetted Parts:** 316 stainless steel
- **Process Fitting:** see column Z
- **Recommended load resistance:** >10,000 ohms
- **Electrical Connection:** Direct Cable Output (standard length 60cm) (Packard and DIN43650 also available)

Sample Applications:

- Energy Measurement
- Air or Liquid Flow Measurement
- Level Measurement of Pressure Vessel
- Filter Differential Pressure Measurement
- Process Control System



PSC628 Ordering Model NO.: PSC628-X-Y-Z-X		PSC628	
X	Y	Z	
Output Type	Pressure Range	Port Type (Female type)	
B = 0.5 ~ 4.5 VDC (Ratiometric)	1 = 0.1 bar	1 =	1/8-27 NPT
C = 4 to 20mA	2 = 0.5 bar	2 =	1/4-18 NPT
D = 1.0V to 5.0V	3 = 1 bar	3 =	DIN3852-A-G1/4
E = 0.5V to 4.5V	4 = 2 bar	4 =	DIN3852-E-G1/4
F = 0 V to 10V	5 = 5 bar	5 =	DIN3852-A-M10*1.0
G = 0 V to 10V	6 = 10 bar	6 =	DIN3852-A-M12*1.5
	7 = 16 bar	7 =	7/16-20 UNF
		X =	Special

Electrical data	PSC628-B (Ratiometric)	PSC628-C (4~20mA)	PSC628-D (1.0~5.0VDC)	PSC628-E (0.5~4.5VDC)	PSC628-F (0~10VDC)	PSC628-G (0~5VDC)
Supply Voltage	4.75 ~ 5.25 VDC	9 ~ 32 VDC	8 ~ 32 VDC	8 ~ 32 VDC	12 ~ 32 VDC	8 ~ 32 VDC
Output	0.5 ~ 4.5 VDC	4 ~ 20 mA	1.0 ~ 5.0 VDC	0.5 ~ 4.5 VDC	0 ~ 10 VDC	0 ~ 5 VDC
Supply Current	< 3 mA	< 30 mA	< 3 mA	< 3 mA	< 12 mA	< 3 mA
Zero Output	0.5 VDC	4 mA	1.0 VDC	0.5 VDC	0 VDC	0 VDC
Full Scale Output	4.5 VDC	20 mA	5.0 VDC	4.5 VDC	10 VDC	5 VDC

Mechanical Configuration	
Media	Compatible With 316 stainless steel
Housing	304 stainless steel
Wetted Material	316 stainless steel, FKM
Ingress Rating	IP65



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Performance (specified @ 25 °C)	
Accuracy (Best fit straight line)	± 0.1% FS
Zero Offset Tolerance	± 0.5% FS
Span Offset Tolerance	± 0.5%
Stability (typical)	± 0.25% Per year
Compensated Temperature Range	-10°C ~ 85°C
Operating Temperature Range	-20°C ~ 125°C
Burst Pressure	3 X Full Scale
Proof Pressure	2 X Full Scale
Line Pressure	10 X Full Scale
Fatigue Life	4 million full scale cycles



Structure reference (Unit: Inch[mm])

