SENSORADE

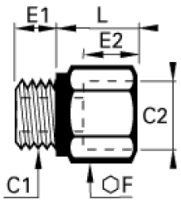
Miniaturized aerodynamic flow measurement

Compensated pressure sensor – 0-5V Output

28 mm – Operating temperature: -40 - 150C° PSC-TX-YYYY-A



• C1:	G1/4
• C2 (mm):	G1/2
• E1 (mm):	8
• E2 (mm):	15.6
• F (mm)	27 A/F
• L (mm):	20.5
• Weight (kg):	0.062



MODEL DEFINITION

T: **T1**: G3/8
T2: G1/4
YYYY: pressure range in PSI (100,3000)
A: absolute pressure measurement
High temperature up to 150C°

WIRE COLOR CODE

BLACK	GND
RED	5V
WHITE	Output



OVERVIEW

- Outer diameter 28 mm
- From 100 to 3000 psi Absolute pressure sensor
- Wide temperature compensation ranges up to 150C°
- Customized solution possible
- 0-5V output (0 – YYYY PSI)
- 1ms response time
- Output can be slightly adjusted for special requests
- Shielded wire: TAU-3219.04
- Wire length: 1m

APPLICATIONS

- Instrumentation (ie: Automotive, Aviation…)
- Aerodynamic testing (ie: Wind tunnel)
- Industrial process monitoring
- Pumps and Compressors
- Leak detection
- Oil and gas

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SENSORADE

Miniaturized aerodynamic flow measurement

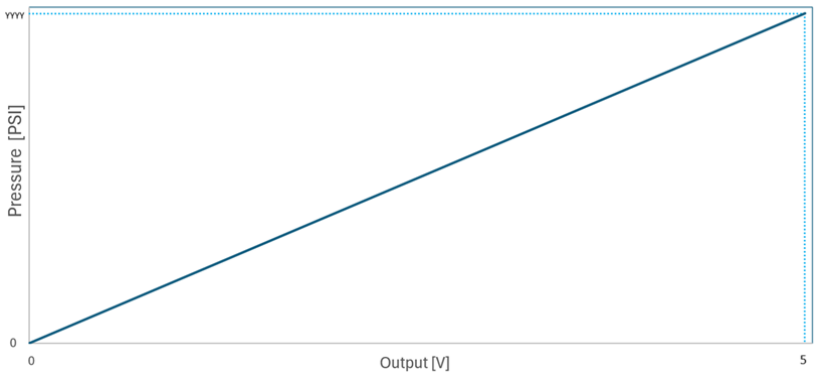
PART NUMBER

PSC-C1-YYYY-A

Pressure range	Burst Pressure
0 → 100 PSI	300 PSI
0 → 300 PSI	900 PSI
0 → 1000 PSI	3000 PSI
0 → 3000 PSI	9000 PSI

Characteristic		Minimum	Typical	Maximum	Unit
Span[4]	0 → 100 PSI	4.9	4.95	5	V
	0 → 300 PSI	4.9	4.95	5	
	0 → 1000 PSI	4.9	4.95	5	
	0 → 3000 PSI	4.9	4.95	5	
Zero Offset		-0,5		0,5	% FS
Total error band (On full compensation range)		-1		1	% FS
Accuracy BFSL[1]		-0.2		0.2	% FS
Operating Temperature[2]		-40		+150	°C
Compensated Temperature[2]		+20		+150	°C
Supply Voltage[3]		4.5	5	5.5	V
Supply current		2	3	5	mA
Load allowed		>2			kOhm
Startup time		2		5	ms
Response time			1		ms

Compensation Result:



Remarks:

- Unless otherwise specified: All above values are specified @25°C and with a power supply of 5V.
- System can be recalibrated by Sensorade.

1| Accuracy @30 Celsius; 2| TMCL qualification tests – JEDEC JESD22-A104 « temperature cycling » @ Tmax; 3| Output will change if V≠5V;
4| Span can be modified for a special request

CONTACT

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