

Model 105S Pressure Transducers for Automotive and Household Application Industries



Based on piezo-resistive silicon technology, model 105S pressure transducers are designed for gauge pressure measurement of non-corrosive and non-conductive gases or dilute liquids pressure media. 105S pressure transducers feature low profile and low cost, which makes these transducers ideal for applications in automotive and household application industries.

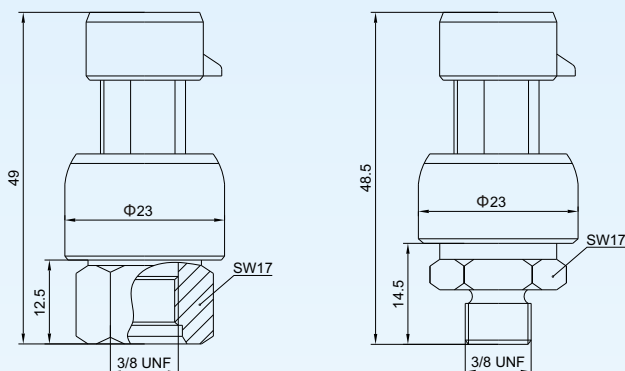
105S pressure transducers have high output sensitivity for weak signal measurement. The standard output signal of 105S pressure transducers is 0.5 ~ 4.5 Vdc, while other output signals, such as 0.5 ~ 2.8 Vdc, 0 ~ 5 or 0 ~ 10 Vdc, are available on request. The measuring accuracy is up to 1 %fso.



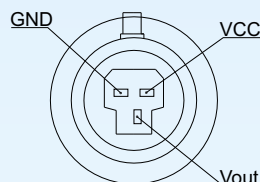
Features:

- middle pressure ranges: 0 ~ 1.6, ..., 0 ~ 100 bar (G)
- output signal: standard: 0.5 ~ 4.5 V;
optional: 0.5 ~ 2.8 V, 0 ~ 5 V, or 0 ~ 10 V
- measuring accuracy: 1 %fso, 2 %fso
- materials: 316L SS (wetted part)
- housing protection: IP 65

Dimensions:



Electrical connection:



3-pin connector (Packard 12065287)

Specifications:

pressure medium		non-corrosive and non-conductive gases or dilute liquids		
measuring ranges	bar	0~1.6, 0~2.5, 0~4, 0~6, 0~10, 0~16, 0~25, 0~40, 0~60, 0~100		
pressure type		Gauge (G)		
overload pressure	%FS	200		
excitation voltage	Vdc	3	5 (standard)	9, ..., 30
output signal	Vdc	0.5 ~ 2.8	0.5 ~ 4.5 (standard)	0 ~ 5, or 0 ~ 10
accuracy	%FSO	1.0 (-20~85 °C), 2.0 (-40 ~ +125 °C)		
long-term stability	%FSO/year	± 0.25		
refresh rate	ms	1		
power dissipation	mA	2 (typical)		
insulation resistance	MΩ	> 500 @ 100 Vdc		
operating temperature range	°C	-40 ~ +125 (standard), or -40 ~ +145		
storage temperature range	°C	-40 ~ +125		
pressure interface	thread	3/8UNF (standard), NPT1/4, M12 x 1.5		
electrical interface	connector	3-pin connector (Packard 12065287)		
environment protection	IP rating	IP 65		
material (wetted parts)		316L SS		

The listed specifications are subject to change without prior notice.

How to order:

ordering code: model-range&type-output-accuracy-pressure interface-electrical interface-other requests (if any)

example: 105S - 0/40 barG - 0.5/4.5V - 1%FSO - 3/8UNF - 3-pin Packard connector

BCM SENSOR TECHNOLOGIES BVBA



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