

Model 493D

Low Differential Pressure Transmitters

Made of BCM piezo resistive silicon sensor dies, model 493D pressure transmitter is designed for differential pressure measurement in low pressure ranges of less than 14.5 psi, the transmitter is for non-electroconductive and non-corrosive gas or dilute-liquid media, which are connected to the pressure tubes on the transmitter.

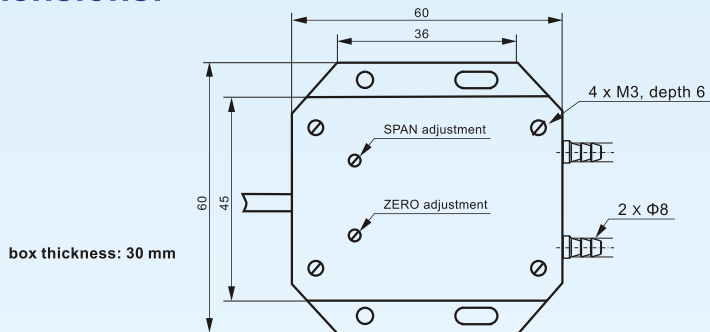
Output signal of 493D can be 4~20 mA or 1~5 V, 1~10 V, and the measuring accuracy can reach to 0.5%fso (fso = full scale output), while the pressure media temperatures can be operated from -20 to +80°C and long term stability of 0.5%fso can be kept on year basis.



Features:

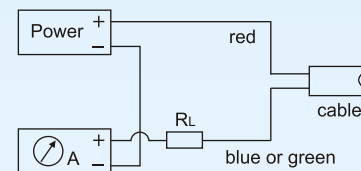
- **pressure ranges:** 0 ~ 0.15 psi, ..., 0 ~ 14.5 psi
- **output signal:** 4~20 mA or 1~5 V, 1~10 V; with direct cable or DIN 43650 connector, plug-in connector
- **measuring accuracy:** 0.5 %fso
- **pressure connection:** $\Phi 8$ aluminium alloy tube
- **housing protection:** IP 65 (Aluminum alloy box)

Dimensions:



Electric connection:

(example of cable connection for 4~20 mA output signal)



Specifications:

pressure media		non-electroconductive (suggested insulation resistance >20 Mohm) and non-corrosive gas or dilute-liquid
pressure range & type	psiD	0~0.15; 0~0.29; 0~0.73; 0~1; 0~2; 0~3; 0~5; 0~10; 0~14.5
overload pressure	%fs	300
system pressure	bar	< 3
output signal		4~20 mA (standard); 0.5~5 V, 0.5~10V
combined error	%fso	0.5
zero & span offset	%fso	0.5
insulation resistance	M Ω	> 500 @ 100 Vdc
power supply	Vdc	12~36
load resistance	Ω	250~1150 (for output signal of 4~20 mA); > 5000 (for output signal of 0.5~5 V, or 0.5~10 V)
temperature coefficient of ZERO	% fso/10°C	1.5
temperature coefficient of SPAN	% fso/10°C	0.5
long-term stability	% fso/year	0.5
dynamic response time	ms	< 2
fatigue life per circle	circle	10 ⁻⁸
compensated temperature range	°C	0 ~ +70
media temperature range	°C	-20 ~ +80
storage temperature range	°C	-40 ~ +125
humidity limits	%RH	0~80
environment protection	IP rating	IP 65 (aluminum alloy box)
process connection	tubing	$\Phi 8$ mm aluminum alloy tube
electrical connection	connector/cable	cable (standard), plug-in connector, DIN 43650 connector

The listed specifications are subject to change without prior notice.

How to order: model - range - output - accuracy - process connection - electric connection - customer specific requests
ordering code example: 493D - 0~1psi, - 4~20 mA - 0.5%fso - $\Phi 8$ tube - direct cable - no specific requests

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