

Model 493D Differential Pressure Transmitters for Medical Applications



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.

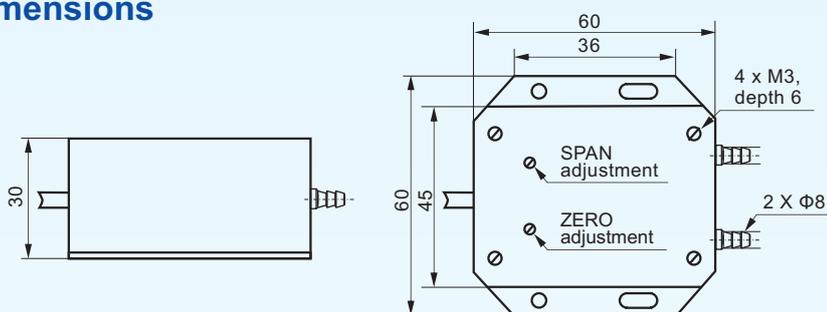
Output signal of 493D can be 4~20mA, 1~5V, 1~10V, or I²C and the measuring accuracy can reach to 0.5%fs (fs = full scale), while the pressure media temperatures can be operated from -20 to +80°C and long term stability of 0.5%fs can be kept on year basis.



Features

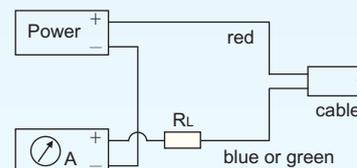
- pressure ranges: 0~0.1bar, ..., 0~1bar
- output signal: 4~20mA, 0~5V, 0.5~4.5V, or I²C with direct cable or DIN 43650 connector (plug-in connector)
- accuracy: 0.5%fs
- pressure connection: Φ8mm aluminium alloy tube
- housing protection: IP65 (Aluminum alloy box)

Dimensions



Electrical connection

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



Technical Data

Parameter	Units	Specifications
pressure media		non-electroconductive and non-corrosive gas
pressure range & type	barD	0~0.1, ~0.35, ~0.7, 0~1
overload pressure	%fs	300
system pressure	bar	< 3
output signal		4~20mA (standard), 1~5 V, 1~10V, I ² C
accuracy	%fs	≤ ±0.5
insulation resistance	MΩ	> 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 1~5 V, or 1~10 V)
temperature coefficient of zero	%fso/°C	≤ ±0.15
temperature coefficient of span	%fso/°C	≤ ±0.05
long-term stability	%fs/year	0.5
dynamic response time	ms	< 2
fatigue life	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		IP65 (aluminum alloy box)
process connection	tubing	Φ8mm 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-0.1bar-4/20mA-0.5%fs-Φ8 tube-direct cable-no specific requests

BCM SENSOR TECHNOLOGIES BVBA

