

Model 430S

Low Pressure Transducers & Transmitters



Based on BCM piezoresistive silicon technology, model 430S low pressure transducers and transmitters are specially designed for medical instrumentation application for low pressure range measurements. Made from 316L stainless steel and designed of rigid and robust construction, 430S series pressure transducers and transmitters are suitable for application in harsh environment and measurement with corrosive pressure media.

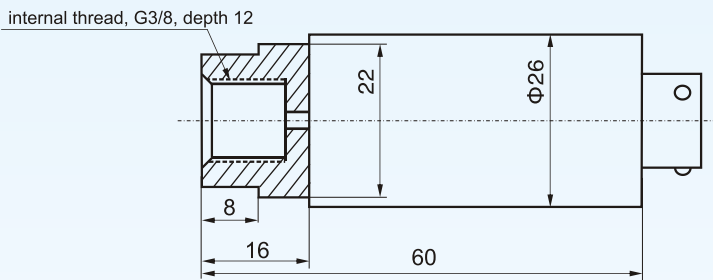
BCM 430S series low pressure transducers and transmitters are manufactured to measure either gauge pressure or absolute pressure in low pressure ranges, the transducer has ~70 mV output signal, while the transmitter has standard output signal of 4~20 mA, the transducers and transmitters possess high accuracy up to 0.25 %fso (fso = full scale output), and temperature compensated range of 0 ~ 70 °C.



Features:

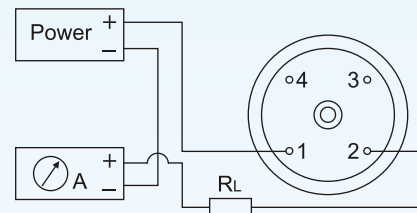
- low pressure ranges: -30 ~ +70 mbarG, 0 ~ 2000 mbarA
- output signal: ~70 mV(transducer) or amplified signal of 4~20 mA (transmitter)
- measuring accuracy: 0.25%fso, 0.5%fso
- pressure membrane: 316L stainless steel
- housing protection: IP 65 (DIN 43650 or plug-in connector), IP 66 (direct cable)

Dimensions:



Electric connection:

(example of 4~20 mA output signal with 4-Pin M12x1 Connector)



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Specifications:

pressure media		gases or dilute liquids, compatible to wetted 316L
measuring ranges & type	mbar (G, A)	-30 ~ +70, -100 ~ +100 (G); 0~500, 0~1000, 0~1500, 0 ~ 2000 (A)
overload pressure	%fso	200
output signal	transducers	~70 mV
	transmitters	4~20 mA (2-wire, standard), 0.5~5 V (3-wire) or 0.5~10 V (3-wire)
combined error	%fso	0.25, 0.5 (standard)
zero & span offset	%fso	± 1
insulation resistance	MΩ	> 500 @ 100 Vdc
excitation (power supply)	Vdc	0.5~1.5 mA or 5V dc (for transducers)
	Vdc	12~30 (for transmitters)
load resistance	transmitters	250~1150 (for 4~20 mA output signal)
		> 5000Ω (for 0.5~5 V or 0.5~10 V output signal)
temperature coefficient of ZERO	%fso/10°C	0.3
temperature coefficient of SPAN	%fso/10°C	0.3
long-term stability	%fso/year	0.3
vibration	g	2 (5~500 Hz)
vibration error	%fso	< 0.01 (x,y,z axis at 200Hz/g)
mechanical shock	g	50
dynamic response time	ms	< 2
compensated temperature range	°C	0 ~ +70
media temperature range	°C	-40 ~ +125
storage temperature range	°C	-40 ~ +125
humidity limits	% RH	0~100%
environment protection	IP rating	IP 65 (DIN 43650 connector, or plug-in connector)
		IP 66 (direct cable outlet)
process connection	internal thread	G3/8 (standard), G1/4, G1/8, M14x1.5
electrical connection	connector/cable	DIN 43650 connector, plug-in connector (standard); shielded PVC cable (3m length, 2-wire, Φ4.7 mm)
weight	gram	180

The listed specifications are subject to change without prior notice.

How to order: model - range & type - output - accuracy - process connection - electric connection - customer specific requests
ordering code example: 430S - (-30 ~ +70) mbarG - 4~20 mA - 0.5%fso - G3/8 - 3m cable - no specific requests

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