

Model 625F Internal Thread Pressure Transducers & Transmitters

Based on BCM metal-foil strain gauge technology, model 625F pressure transducers and transmitters are made 100% from stainless steel in mass production. With internal thread for pressure connection, the transducers and transmitters are used for gases or dilute liquid pressure media, by the all welded constructions, the transducers and transmitters can be specially used in some flammable environments.

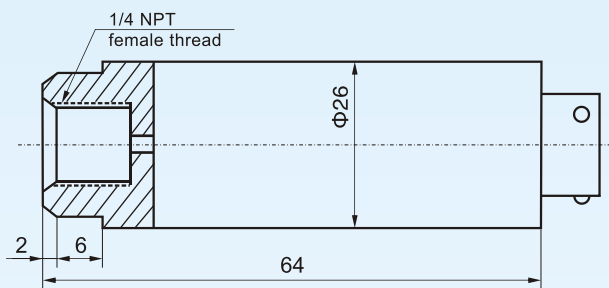
The transducers and transmitters are compensated in a wide temperature ranges of -10 ~ +60 °C, and have a nice long term stability of less than 0.15%fso (fso = full scale output) for a year, high accuracy up to 0.05%fso, option with 80% shunt calibration signal. The output of pressure transducers is Wheatstone bridge circuit output or amplified output signals such as 1~10 Vdc or 4~20 mA etc.



Features:

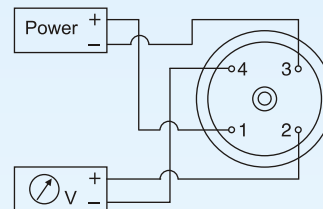
- wide measuring ranges from 0~16 bar to 0~1000 bar
- measuring accuracy of 0.05%fso, 0.1%fso, 0.25%fso, 0.5%fso selectable
- 100% made from stainless steel; all welded construction, rigid and compact, anti-flammable and explosive-proof
- internal shunt calibration signal of 80%fso is option
- protection class: IP 65 (connector); IP 66 (cable)

Dimensions:



Electric connection:

(example connection for wheatstone bridge mV output signal)



Specifications:

pressure media		gases or dilute liquids, compatible to wetted stainless steel
measuring ranges & type	BarG	0~16, 0~25, 0~40, 0~70, 0~100, 0~160, 0~250, 0~400, 0~700, 0~1000
overload pressure	%fs	150
output signal	transducers	1mV/V (range 0~16 bar), 1.5mV/V (range 0~25 bar), 2mV/V (other ranges)
	transmitters	1~5 V, 1~10 V, 4~20 mA for pressure transmitters
combined error	%fso	0.05, 0.1 (standard), 0.25, 0.5
repeatability	%fso	0.05
zero offset	%fso	± 1
input & outout resistance	transducers	350Ω±10% (standatd); 1000Ω±10% (for wheatstone bridge output signal)
	transmitters	250~1150 Ω (for 4~20 mA output signal) > 5000Ω (for 1~5 V or 1~10 V output signal)
insulation resistance	MΩ	≥500 @ 100 Vdc
supply voltage	transducers	10 V (max. 12V)
	transmitters	12~36 V
temperature coefficient of ZERO	%fso/10°C	0.5
temperature coefficient of SPAN	%fso/10°C	0.5
long-term stability	%fso/year	< 0.15
compensated temperature range	°C	-10 ~ +60
media temperature range	°C	-20 ~ +125
internal shunt calibration	%fso	80 (available on request, with 6-pin connector or 6-core cable)
explosive-proof	proof rating	exia II CT6
process connection	external thread	1/2"-20 UNF (standard), 7/16"-20 UNF, 1/4"-NPT, M16x1.5, M20x1.5
electrical connection	connector/cable	6-pin (standard), 5-pin, 4-pin connector; DIN 43650 connector; shielded PVC cable (3m length, 6-core, Φ4.7 mm)

The listed specifications are subject to change without prior notice.

How to order: model - range - output - accuracy - process connection - electric connection - calibration - customer specific requests
ordering code example: 625F - 0~700 bar - 4~20 mA - 0.5%fso - 1/2"-20 UNF - cable - need calibration - no specific requests

BCM SENSOR TECHNOLOGIES BVBA