

Features

- metal strain gauge technology
- mono-block construction of the wetted parts
- Exia II CT6 explosive-proof
- high measuring ranges from 0~600 to 0~6,000 bar (gauge)
- conditioned output of 4~20 mA, 0.5~5 Vdc, or 0.5~10 Vdc
- measuring accuracy up to 0.25%fs
- 80% shunt calibration function available on request

Applications

- water jet cutting machines
- high gauge pressure applications



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Description

722F-series pressure transmitters are designed for high gauge pressure applications and made of metal foil strain gauge technology. These transmitters are rugged in design and certified to be explosive proof (Exia II CT6).

The pressure ranges of 722F transmitters starts from 0~600 bar and ends at 0~6000 bar. A number of standard output signals, such as 4~20 mA current loop or voltage output of 0.5~4.5V or 0.5~5V (or 10V), are available when order. The measuring accuracy of 722F transmitters is 0.5%fs (fs=full scale). Thanks to BCM's advanced stain gauge technology, model 722FF transmitters provide good long-term stability (<0.2%fs/year), thermal characteristics (<0.005%fs/°C), and excellent shock and vibration resistance. 80% shunt calibration is available on request to ease the field applications.

The wetted parts of the 722F transmitters are of a mono-block construction. That is, the diaphragm and the wetted parts are made from one stainless steel block. As a result the pressure is completely stopped by the diaphragm in the wetted parts. No rubber O-ring is needed for sealing. This unique feature allows the 722F transmitters to have long service life with minimal maintenance. By means of an inner cavity, model 722F transmitter is designed to measure gauge pressures of gases or dilute liquids.

722F pressure transmitters are widely used in applications where high pressure needs to be measured. One of the typical applications of 722F pressure transmitters is to measure the pressure generated by water jet cutting machines.

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Technical Data

parameters	units	specifications				
pressure medium		gases or dilute fluids compatible with the material of wetted parts				
	barG	0~600, 0~1000, 0~1600, 0~2500, 0~4000, 0~6000				
pressure range	barA	NA*				
	barS	NA				
overload pressure	%fs	120				
burst pressure	%fs	150				
output signal		4~20 mA (standard), 0.5~4.5 V (ratiometric), 0.5~5 V, 0.5~10 V				
accuracy	%fs	± 0.5				
long-term stability	%fs/year	< 0.15				
power supply (V _{sup})	Vdc	15,, 36				
response time (1090%)	ms	<1				
load resistance for current loop	Ω	≤(V _{sup} -12)V/0.02mA				
load resistance for voltage output	kΩ	> 5				
storage temperature range	°C	-20 ~ +125				
operating temperature range	°C	-20 ~ +125				
compensated temperature range	°C	-10 ~ +60				
temp. coefficient of span	%fs/°C	± 0.05				
temp. coefficient of zero	%fs/°C	± 0.05				
vibration resistance (20,, 2000 Hz)	g	10				
seal		mono-block wetted parts				
filling fluid		NA				
material of diaphragm		17-4PH for ranges ≤2,500 bar, mild steel for ranges >2,500 bar				
material of wetted parts		17-4PH for ranges ≤2,500 bar, mild steel for ranges >2,500 bar				
material of electronics housing		304 SS for range ≤2,500 bar, mild steel for range >2,500 bar				
mechanical interface		refer to the drawings of mechanical interface				
electrical interface		refer to the drawings of electrical interface				
80%fs shunt calibration		available on request				
explosive proof		Exia II CT 6				
environment protection	IP rating	IP 65, IP 66				
unit weight	g	~ 500				

The listed specifications and dimensions are subject to change without prior notice.

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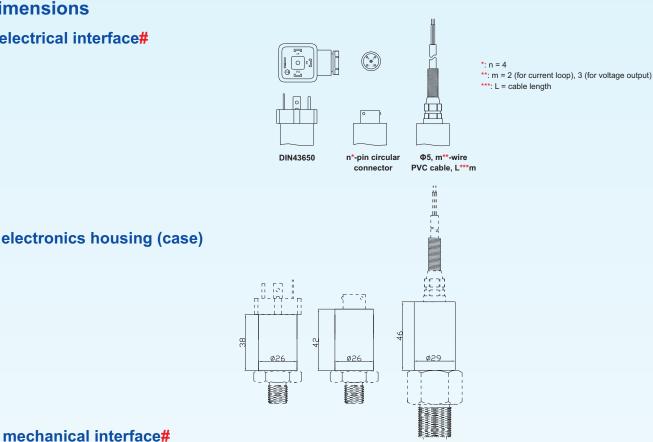
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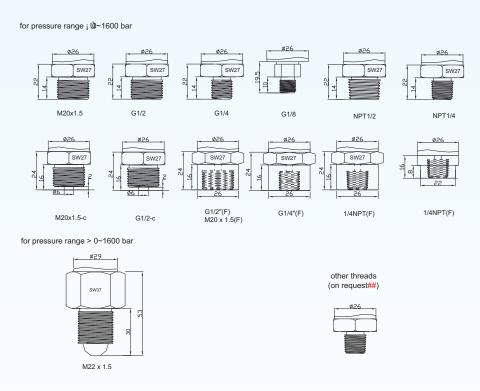
^{*:} NA = not available or not applicable



Dimensions

electrical interface#





- #: The mechanical interfaces and the electrical interfaces listed below can be combined freely.
- ##: Other types of interfaces are available on request and to be confirmed in case of order.

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Ordering Information

position	(pos.) 1: ı	model										
722F												
	pos. 2: r	anges and	l types									
	600 bar, 1000 bar, 1600 bar, 2500 bar,	G G	4000 bar, 6000 bar,		G: gauge	pressure						
		pos. 3: output signal										
		4~20 mA	A 0.5~4.5 V (ratiometric) 0.5~5 V 0.5~10 V									
			pos. 4: a	ccuracy								
			0.5 %fs									
				pos. 5: s	supply pov	wer						
				24 V (15,	, 36 Vdc)	5 V (for o/	p = 0.5~4.5	(V)				
						illing fluid						
					NA*. In ca			e omitted fro		ing code.		
								wetted par	-			
							17-4PH: 17-4PH stainless steel (ranges ≤ 2500 bar) mildSS: mild steel (ranges >2,500 bar)					
							-	mechanica	· ·	9		
							Refer to drawings of mechanical interface for available options.					
								pos. 9: e	lectrical i	nterface		
								For available connections, refer to drawings of electrical interf. For cable, code = diameter(Φ)/number of conductors/cable jac /cable length 5.7/4/PVC/L** = Φ5.7 mm,4-conductors shielded, PVC, L m				
									pos. 10:	environment protection		
									IP 65 IP 66			
									17 00	pos. 11: customized spec's		
										When any customized spec's are required, the customer needs to add "C" as the last parameter in the ordering code, and specifies the wished spec's on his order clearly.		
										The customized spec's needs to be confirmed in advance by BCM's sales representative.		
										Code "C" can be omitted if no customized spec's are required.		
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10	pos. 11		

^{*:} NA = not available or not applicable;

example: 722F-4000barG-4/20mA-0.5%fs-mildSS-M22x1.5-DIN43650-IP65-C



ISO9001 Certified Company

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^{**:} L = cable length. This value is a customized value.