

FC0803G Diaphragm Pressure Transmitter

Production application

The series of products were based on the prototype of FC0802 and FC0803 pressure transmitters, formed through adding the welded seal diaphragm structure. There are various processes connection structures of the welded seal diaphragm devices, especially fit the pressure measurement of the medium which has high temperature, high viscosity, easy to crystallize, and the occasion which is easy to block, it also fit the pressure measurement of health and medical occasions.



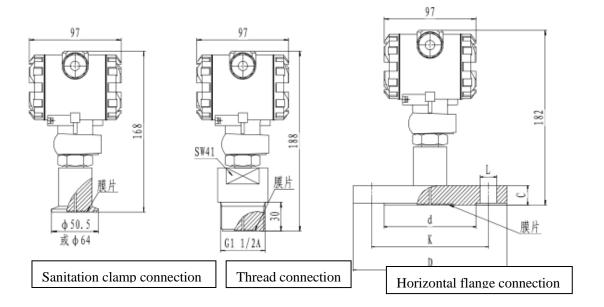
Features

- Using ceramic capacitance pressure sensor or diffused silicon pressure sensor;
- Can measure the gauge pressure and absolute pressure of gases, vapors and liquids;
- Suitable for the pressure measurement of large, medium-sized equipment and production process control;
- The explosion-proof type has intrinsical safety Exia II CT6 and flame-proof Exd II CT6;
- Output: Intelligent type 4 ~ 20m ADC two-wire system + Fieldbus HART protocol;
- Accuracy: $\pm 0.25\%$ FS, $\pm 0.5\%$ FS;
- Small temperature influence, high repeatability, good long-term stability;
- Overload pressure is from 10 times to 100 times of the full scale pressure;
- Diaphragm is made of stainless steel 316L;
- Process connection material is made of stainless steel 304, with a variety of process connection types and specifications;
- Polyurethane (PU) paint low copper die-cast aluminum alloy case, protection level is superior to IP65.

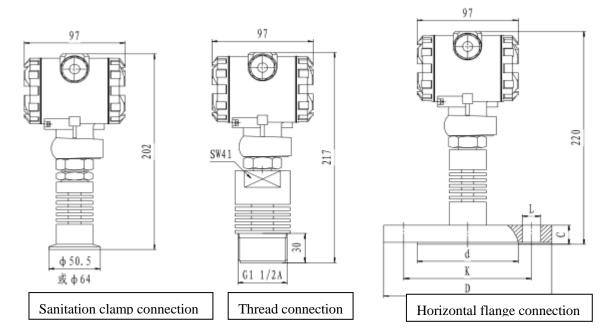
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Normal temperature



High temperature type



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H	rsi		n

DN	D	K	L	d	C
Nominal diameter	External diameter of flange	Center diameter of bolt hole	Bolt hole diameter	Sealing Face Diameter	Flange Thickness
50	165	125	4-Ф18	99	20
80	200	160	8-Ф18	132	24

Mode selection diagram

Code						Illustration		
FC0803G						Diaphragm type pressure transmitter		
Range of Measurement	0~3.5			Directly write numerical value (MPa)				
Signal output	S			Intelligent type 4~20mADC,two-wire system +Filedbus Hart protocol				
Accuracy grade J1 J2					0.25			
		J2				0.5		
L3					Thread connection, External thread G1 1/2"A			
					Sanitation clamp interface 1 1/2 " (Interface diameter 50.5mm)			
			;		Sanitation clamp interface 2" (Interface diameter 64mm)			
					Horizontal flange connection DN50			
			3		Horizontal flange connectiondn80			
			О			Provide size processing according to users		
Temperature of the measuring medium TH			TN		Normal temperature type (≤70°C)			
			TH		High temperature type (≤130°C)			
d i						d	Flame-proof type ExdIICT6	
						i	Intrinsic safety type ExiaIICT6	
Option			М3		Digital display meter 3 1/2LCD			
				G	Gauge pressure measurement			
						F	Absolute pressure measurement (customized by user's appointment)	

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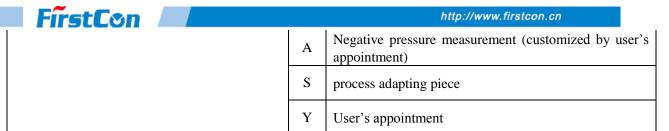


Illustration: 1) If the measured pressure overloads, please give overload pressure value.

2) Temperature of measured medium is as high as 130 °C or below 20 °C, suggesting using the temperature isolator or capillary structure, to ensure that the sensor from being damaged.

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