

# PC12F Flush Diaphragm Pressure Sensor with Flange

## **Features**

- Flange mounting
- Constant current compensation
- Compensation board filled with glue for protection against moisture
- Large size diaphragm,fully welded and sealed, long-term reliability and durability
- For pressure measurement of gas, liquid, steam
- Anti-corrosion diaphragm optional
- Especially suitable for high temperature viscous liquids

## **Applications and industries**

Process control used in petroleum, chemical industry, metallurgy, electric power, food, papermaking, medicine, machinery manufacturing, scientific experiments and aviation and military industries.

#### Notes:

1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.

2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.

3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.

4 Misuse of the product may cause danger or personal injury.



## **Product overview**

PC12F flush diaphragm pressure sensor with flange is a flush diaphragm product that meets the flange installation requirements of customers. This product uses imported diffused silicon pressure sensitive elements, and after long-term aging and stability screening, the product performance is stable and reliable. It is an excellent choice for field use and production of pressure transmitters.

PC12F flush diaphragm pressure sensor with flange adopts the international standard flange interface standard, allowing for user-friendly flange installation methods. As the force diaphragm is exposed to directly sense pressure, it is easy to clean and can meet requirements for harsh conditions such as moisture and water resistance. This series of products are widely used in industrial process control, petroleum, chemical industry, metallurgy, and other media containing particulate and viscous substances.

#### Notes:

1 Do not misuse documentation.

2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.

3 Complete installation, operation, and maintenance information is provided in the instructions of the product.

4 Misuse of the product may cause danger or personal injury.

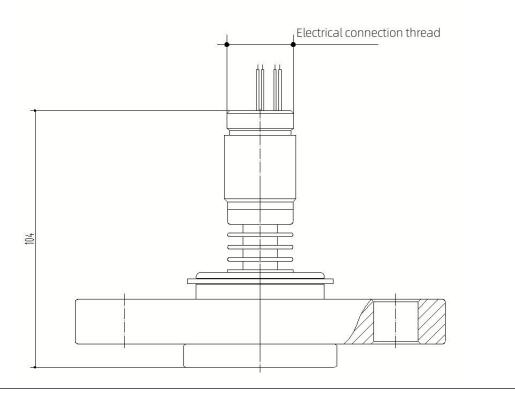


Performance parameters									
Pressure range	0∼35kPa6MPa								
Pressure reference	Gauge pressure   Absolute pressure   Sealed gauge pressure								
Power supply	1.5mA excitation								
Non-linearity	±0.25%FS(BFSL,@25±5°C)								
Temperature drift	±1.5%FS								
Compensation temp.	-10°C~70°C								
Operating temp.	-40°C~100°C								
Storage temp.	-40°C~85°C								
Insulation resistance	≥200MΩ/250VDC								
Overload pressure	150%FS								
Long-term stability	±0.2%FS/Year								
Diaphragm material	316L(316L Sprayed with PTFE、Hastelloy C、Tantalum)								
Oil filling	Silicon oil								
Electrical connection	M25×1, M27×2								
Process connection	DN25、DN50、DN80								
Weight	5kg (DN50)								

# **Outline dimension**

Dimension drawing(Take DN50 as an example)

In mm





# Installation diagram installation instructions Outline drawing installation instructions Image: stop value Image: stop value Stop value Image: stop value

#### How to order

PC12F	- 100kG	H1	Т9	5	-	DN	50	- F	PN40		M5		
										Coc	le	Diaphragm material	
										M	1	304	
										M	5	316L	
		Code				Code	Nominal pressure of flange						
								F	PN16			1.6MPa	
								F	PN40			4MPa	
						Code	•	Flang dia	e nominal ameter	Code	e	Flange nominal diameter	
						DN25	5	0	DN25	DN8	C	DN80	
			I			DN50	)	0	DN50				
		I	T-connector specifications Not optic				onal, determined according to flange specifications						
		Code	Ele	Electrical connection threa			d	Cod	le	Eleo	Electrical connection thread		
		H1				M25×1		H2	2		M27×2		
	Code	Range sel	Code			Range C selection		Co	ode	Range selection			
	35kG	35kPa G		1MG			1MPa G		1.6MS		1.6MPa S		
	70kG	70kPa	G	1.6MG		1.6MPa G		2.5	MS	2.5MPa S			
	100kG	100kPa	-		2.5MG		2.5MPa G		61	ИS	6MPa S		
	250kG	250kPa			1MA		1MPa A						
	600kG	600kPa	a G	G			1MS		1MPa S				
PC12F		Product model PC12F											

# Example: PC12F-100kGH1T95-DN50-PN40M5

Refer to product model PC12F, pressure range: 100kPa, gauge pressure, electrical connection thread:M25×1, flange:DN50-PN40-316L, diaphragm material:default 316L.



# **Ordering tips**

1. Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.

2. If you have special requirements for product appearance and performance parameters, our company can provide customization.

# **Contact us**

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