

Features

- Compact structure
- Digital circuit compensation
- Strong anti-interference, good long-term stability
- Small diameter, small size, easy to install and use
- Can measure absolute pressure, gauge pressure and sealed gauge pressure
- A variety of electrical connections
- Liquid contacting diaphragm 316L
- Suitable for mass production

Applications

- Air compressor
- Hydraulic and pneumatic equipment
- Servo valves and drive
- Air conditioning systems
- Piping systems

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.



VPT10 pressure transmitter is specially designed for small and medium equipment applications such as booster pumps and air compressors. It is also applicable to a wide range of industrial applications, with a variety of structures, output forms and pressure connections to meet the requirements of most applications. PCM390 is designed with compact structure which especially applies to the installation in small space.

Notes:

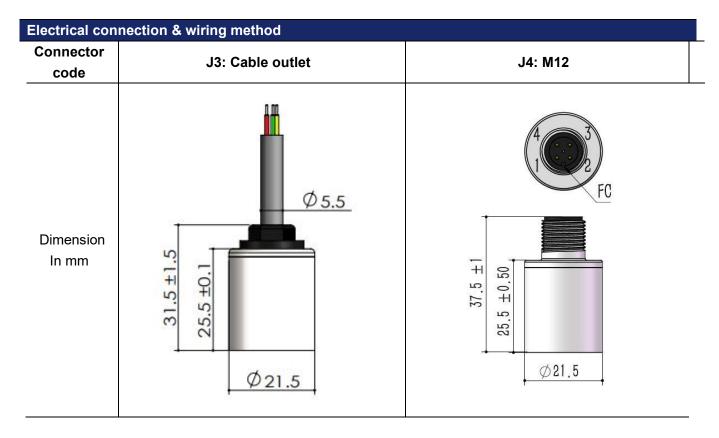
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Performance parameters				
Pressure range	0~1000 Bar			
Pressure reference	rence Gauge pressure, Absolute pressure, Sealed gauge pressure			
Accuracy	±0.5%FS(typ.)for pressure ≥100kPa; ±1%FS(max.) for pressure <			
	100kPa			
Hysteresis & repeatability	≤±0.1%FS			



Temp. drift	≤±1.5%FS(-20° C~85° C)		
Response time	<10ms		
Service life	≥10×10 ⁶ pressure cycles		
Ambient temp.	-20° C~80° C		
Medium temp.	-30° C~105° C		
Storage temp40° C~120° C			
EMC-interference IEC 61000-6-3			
EMC-immunity IEC 61000-6-2			
Insulation resistance ≥100MΩ/500VDC(200MΩ/250VDC)			
Vibration resistance	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6		
VIDIALION TESISLANCE	Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64		
Shock resistance	Shock: 100g/11ms; IEC 60068-2-27		
SHOCK resistance	Free fall: 1m; IEC 60068-2-32		
Protection	IP65		
	Diaphragm and sensor inside (AISI316L)		
Material	Housing and pressure port: (AISI304)		
	Electrical connection: PA66		
Net weight	50g~90g		
Size of hexagon	HEX22		

Supply & output					
Code	B1	B7	B6		
Output	4∼20mA	0∼10V	0.5∼4.5V R/M		
Supply	12∼30VDC	12~30VDC	5VDC		





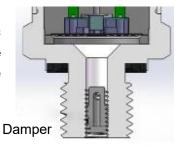
Connection mode Current (2 wires)	Red: Supply+ Green: Current output	Pin 1: Supply+ Pin 2: Current output Pin 3: Pending
Connection mode Voltage (3 wires)	Red: Supply+ Green: Ground Yellow: Voltage output	Pin 1: Supply+ Pin 2: Voltage output Pin 3: Ground

Connector code	J6: Mini 4 pin	J7: Round Packard
Dimension In mm	24.3 ±1 25.5 Ø21.5	2 1 + 8 + 1 + 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2
Connection	Pin 1: Supply+	Pin 1: Supply+
mode Current	Pin 2: Current output Pin 3: Pending	Pin 2: Current output
(2 wires)	Grounding: Pending	Pin 3: Pending
Connection mode Voltage (3 wires)	Pin 1: Supply+ Pin 2: Ground Pin 3: Voltage output Grounding: Pending	Pin 1: Supply+ Pin 2: Ground Pin 3: Voltage output

Application of damper

Application

Cavitation, liquid hammer and pressure peak may occur in air or hydraulic systems with varying flow rates, such as the rapid closing of valve or the start and stop of pump. Even at relatively low operating pressures, these problems may occur at the entrance and exit.



Installation

If the fluids containing particles, then nozzle clogging maybe occur, and the vertical installation of the



transmitter minimizes the risk of clogging.

Accessory

Name	Appearance	Description	Item number
M4 damper	4	1 Refer to "Application of damper"	
	Chillian	2 Pressure ports with thread code	100030100027
		C12, C34 and C36 are not	100030100021
		applicable	

Pressure port

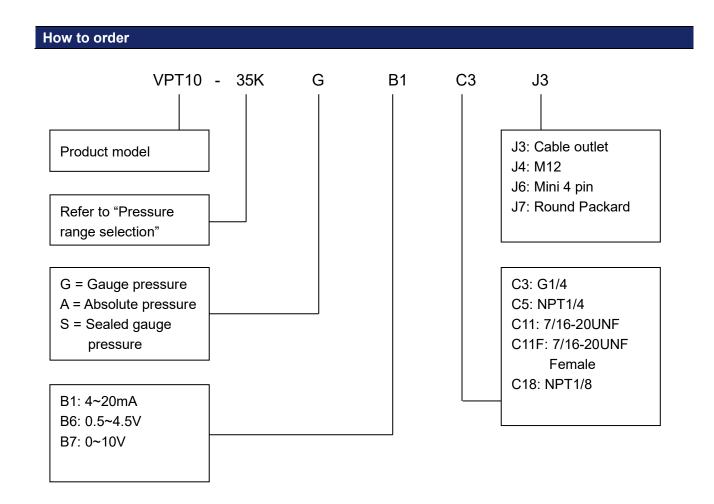
Thread code	C3: G1/4	C5: NPT1/4-18	C11: 7/16-20UNF	
Dimension In mm	22 G1/4	22 NPT1/4	7/16-20UNF	
Recommended torque	15~25 N•m	15~25 N•m	15~25 N•m	
Thread code	C18: NPT1/8	C11F: 7/16-20UNF Female		
Dimension In mm	NPT1/8	7/16-20UNF		
Recommended torque	15~25 N•m	15~25 N•m		

Note: Recommended torque depends on various factors such as material of gasket, supporting materials, lubrication of thread and pressure.



Pressure range selection					
Pressure range code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
35k	G	0~0.35 Bar	300%FS	600%FS	1
70k	G	0~0.7 Bar	300%FS	600%FS	1
100kC	G, A	0∼1 Bar	200%FS	500%FS	
160kC	G	0~1.6 Bar	200%FS	500%FS	
250kC	G、A	0~ 2.5 Bar	200%FS	500%FS	
400kC	G	0~4 Bar	200%FS	500%FS	
600kC	G	0~6 Bar	200%FS	500%FS	
1MC	G	0~10 Bar	200%FS	500%FS	
1.6MC	G, S	0~16 Bar	200%FS	500%FS	
2.5MC	S	0~25 Bar	200%FS	500%FS	
4MC	S	0~40 Bar	200%FS	400%FS	
6MC	S	0~60 Bar	200%FS	300%FS	
10M	S	0~100 Bar	200%FS	300%FS	1
16M	S	0~160 Bar	150%FS	200%FS	1)
25M	S	0~250 Bar	150%FS	200%FS	1)

Note: (1)G stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure. (2)"①"is non-glass header, please note.





Example: VPT10

Refer to product model VPT10, pressure range 0~70kPa, pressure reference gauge pressure, output signal 4~20mA, pressure port G1/4, electrical connection cable outlet.

Ordering tips:

Ensure compatibility between measured media and contacting part of product when placing an order.

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