

Main Specifications

▼ Pressure connection

Material: SS304
M20 x 1.5, G1/2" , M14x1.5,
G1/4" (M), G1/4" (F)
1/2" NPT, 1/4" NPT, 1/4" PT

▼ Electrical connector

Hirschmann connector /
Hirschmann with cable outlet /
Cable outlet / Packard /
BP3 aluminum case /
Aviation plug

▼ Sealing O-ring

NBR

▼ Pressure range

-100kPa...0~10kPa...100MPa

▼ Pressure type

Gauge pressure /
Sealed pressure /
Absolute pressure /
Compound pressure

▼ Applicable fluid

Liquid and gas that compatible
with SS304

▼ Ambient temperature

-20~85°C

▼ Storage temperature

-40~125°C

▼ Vibration resistance test

20g (20-5000Hz)

▼ Impact resistance test

100g (11ms)

▼ Protection level

IP 54 (Hirschmann connector)
IP 65 (Packard, aluminum case)
IP 67 (Aviation plug, cable outlet)

▼ Explosion-proof class (option)

Exia II CT6

Other Specifications

▼ Case

Stainless steel

▼ Power supply

24VDC / 12VDC

▼ Output signal

4~20mA

1~5V

0~5V

0~10V

0.5~4.5V

▼ Measuring elements

Diffusion silicone chip

Transducer

Material: SS316L

▼ Zero & span drift

±1.5% F.S. max (@-10~70°C)

▼ Accuracy

±0.5% F.S. (standard) /

±0.3% F.S. (option) /

±0.1% F.S. (option)

▼ Stability

±0.2% F.S. /year

▼ Response time

≤1ms

(pressure increase to 90%F.S.)

▼ Insulation resistance

100MΩ, 250VDC

▼ Temperature compensation

-10 to 70°C /

-20 to 85°C (option)

▼ Overpressure

1.5*F.S.

▼ EMC surge

(IEC61000-4-5) 2KV

▼ EMC discharge

(IEC61000-4-2)

Contact discharge 8KV

Air discharge 15KV

General-Purpose Pressure Transmitter

Model: PT-VP

Introduction

PT-VP Pressure Transmitter adopts diffusion silicon chip as pressure sensor. The in-built process circuit transform mV signal to standard voltage and current output, which is suitable for using with computer, control equipment and display unit.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- All stainless steel integrated design with easy installation features, suitable for long term use in hazardous environment
- Various electrical connectors and thread types for selection
- Wide measurement range
- Anti-vibration, anti-impact, and anti-corrosive
- High interference with long term stability
- Zero and span field calibration

Typical measurement scale table

Gauge pressure		Sealed gauge pressure		Compound pressure		Absolute pressure	
Code	Range	Code	Range	Code	Range	Code	Range
G1	-100kPa~0	S1	0~10MPa	C1	-100kPa~0~100kPa	A1	0~0.1MPa
G2	0~10kPa	S2	0~20MPa	C2	-100kPa~0~200kPa	A2	0~0.2MPa
G3	0~20kPa	S3	0~25MPa	C3	-100kPa~0~500kPa	AO	Others
G4	0~50kPa	S4	0~40MPa	C4	-100kPa~0~1MPa		
G5	0~100kPa	S5	0~60MPa	C5	-100kPa~0~2MPa		
G6	0~200kPa	S6	0~80MPa	C6	-100kPa~0~5MPa		
G7	0~500kPa	S7	0~100MPa	C7	-100kPa~0~10MPa		
G8	0~1MPa	SO	Others	CO	Others		
G9	0~2MPa						
G10	0~5MPa						
GO	Others						

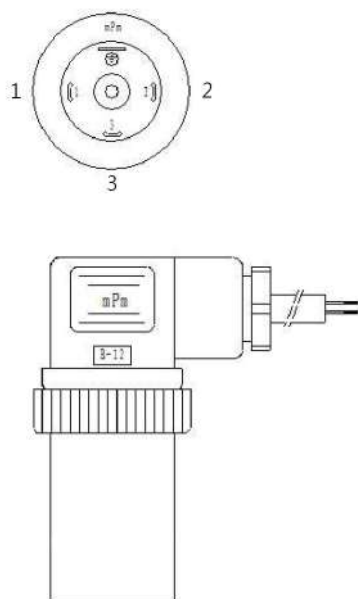


Cable outlet

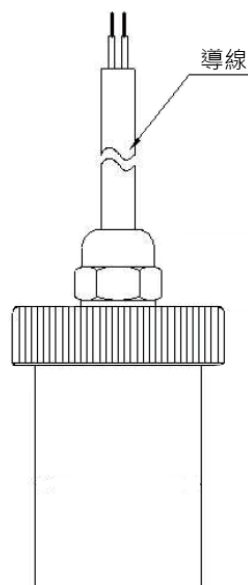


Hirschmann cable outlet

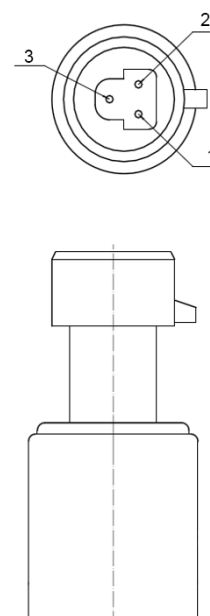
Electrical Connectors Dimension



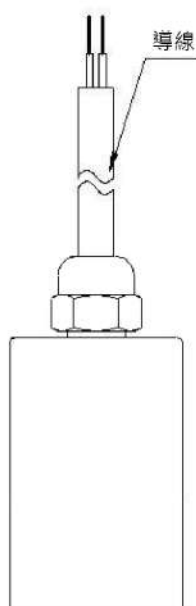
Hirschmann connector		
Current (two-wire)	Pin1	Power supply (+)
	Pin2	Current output
Voltage (three-wire)	Pin1	Power supply (+)
	Pin2	COM
	Pin3	Voltage output



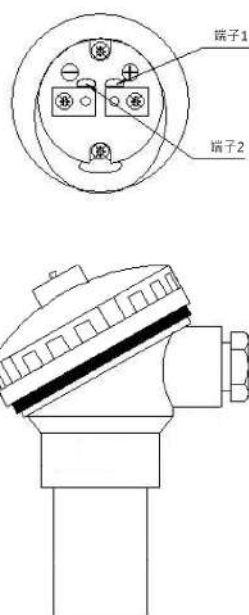
Hirschmann with cable outlet		
Current (two-wire)	RED	Power supply (+)
	GREEN	Current output
Voltage (three-wire)	RED	Power supply (+)
	BLUE	COM
	YELLOW	Voltage output



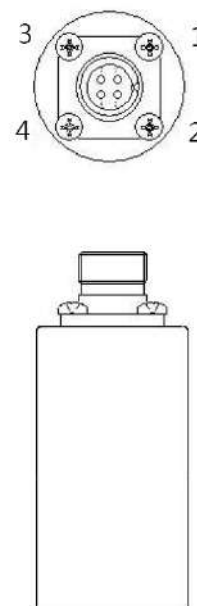
Packard connector		
Current (two-wire)	Pin1	Power supply (+)
	Pin2	Current output
Voltage (three-wire)	Pin1	Power supply (+)
	Pin2	COM
	Pin3	Voltage output



Cable outlet		
Current (two-wire)	RED	Power supply (+)
	GREEN	Current output
Voltage (three-wire)	RED	Power supply (+)
	BLUE	COM
	YELLOW	Voltage output



BP3 aluminum case		
Current (two-wire)	Terminal 1	24VDC
	Terminal 2	Current output



Aviation plug		
Current (two-wire)	Pin1	Power supply (+)
	Pin2	Current output
Voltage (three-wire)	Pin1	Power supply (+)
	Pin2	COM
	Pin3	Voltage output

How to order

PT-VP General-Purpose Pressure Transmitter									
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
4N	Pressure connection	4N	1/2" NPT	2N	1/4" NPT	2P	1/4" PT	2GM	G1/4" (male)
		2GF	G1/4" (female)	4G	G1/2"	M20	M20*1.5	M14	M14*1.5
H	Electrical connector	H	Hirschmann connector	HC	Hirschmann with cable outlet	C	Cable outlet	P	Packard connector
		AC	BP3 aluminum case	A	Aviation plug	—	—	—	—
Custom	Pressure range	Please refer to typical measurement scale table and select code							
V1	Output signal	V1	4-20mA	V2	1~5V	V3	0~5V	V4	0~10V
		V5	0.5~4.5V	—	—	—	—	—	—
24V	Power supply	24V	24VDC	12	12VDC	—	—	—	—
A	Accuracy	A	±0.5%F.S.	B	±0.3%F.S.	C	±0.1%F.S.	—	—
/B	Other requests	/A	Third party notarized document						
		/B	Inspection report (issued by Re-Atlantis)						
		/C	Tag						
		/D	Install a display unit						
		/E	Explosion-proof + certificate						
		/F	Temperature compensation: -20 to 85°C						
		/G	Add cable length (standard 1.5m)						
		/H	Long-term pressure hold requirement						
		/I	Adapt the other kind of threads						

Order example: PT-VP - 4N - H - S3 - V1 - 24V - A - /B