

Industrial Electronic Pressure Transducers PT603

Applications

PT603 series, industrial pressure sensors which borrow ceramic sensors, and transducers is as high as 0.5% FSO BFSL. Max input pressure range can be up to 250bar ,and different analogue signal outputs are available. It can bear the characteristic of unrestricted to vacuum and can be used in various industrial sites.

Characteristics

Advanced designing idea
Overpressure available

Standard stainless steel pressure ports which lead to easy installation



Optional analogue output
Optional electrical connections

Up to IP67

Reverse polarity protection,
short-circuit protection



Input pressure range

Norminal pressure gauge (bar)	1.6	2.5	4	6	10	16	25
Permissible overpressure (bar)	4	4	10	10	20	40	40
Burst pressure (bar)	7	12	15	15	35	70	70
Norminal pressure gauge (bar)	40	60	100	160	250		
Permissible overpressure (bar)	100	100	200	400	400		
Burst pressure (bar)	150	150	250	450	450		

Permissible temperatures

Medium	-25 ~ +125 °C
Electronics/environment	-25 ~ +85 °C
Storage	-40 ~ +85 °C

Current signal	4 ~ 20 mA 2-wire / Vs= 8 ~ 32 V DC Current consumption: Max.25 mA
Voltage signal	0 ~ 10 V 3-wire / Vs=14 ~ 30 V DC Current consumption: typ. 5mA short-circuit current Max. 20mA
Turn down of span	0.5 ~ 4.5 V 3-wire / Vs= 5 ± 0.5 V DC Current consumption: typ. 1.5mA
Accuracy of contacts	BFSL ≤ ± 0.5% FSO ; IEC 60770: ≤ ± 1%FSO
Influence effects	Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kΩ
Permissible load	Rmax=[(Vs - VSmin)/0.02]Ω 2-wire Rmin=10 KΩ 3-wire
Response time	≤ 10 ms 2-wire; ≤ 3 ms 3-wire
Measuring rate	1 kHz
Thermal error	≤ ± 0.5% FSO / 10k
Compensated range	-25~+85 °C
Long-term stability	≤ ± 0.3% FSO / year

Sensor characteristics

Pressure port	Stainless steel 1.4301 (304)
Housing	Stainless steel 1.4301 (304)
Seals	FKM
Diaphragm	Ceramics Al ₂ O ₃ , 96%
Media wetted parts	Pressure port, seals, diaphragm
Electromagnetic compatibility	Emission and immunity according to EN 61326
Vibration	10 g, 25 Hz ~ 2 kHz according to IEC 68-2-6
Shock	500 g / 1 ms according to IEC 68-2-27
Operational life	> 100 x 10 ⁶ cycles
Weight	Approx. 120 g
Installation position	Any
CE-conformity	EMC Directive: 2004/108/EC
Pressure equipment directive	97/23/EC(Module A) / only valid for devices with maximum permissible overpressure >200 bar

Attn: Permanent short-circuit protection, no short-circuit protection for turn down of span.
Reverse polarity protection doesn't damage products, but also no function.

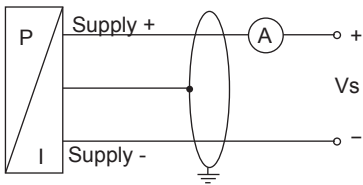
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Electrical connection

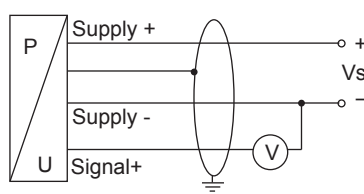
	ISO 4400	Micro	M12 x 1	Cable colors DIN 47100
Supply +	1	1	1	White
Supply -	2	2	2	Brown
Signal + (3-wire)	3	3	3	Green
Shield	Ground pin	Ground pin	4	Yellow/green (shield)

Wiring diagram

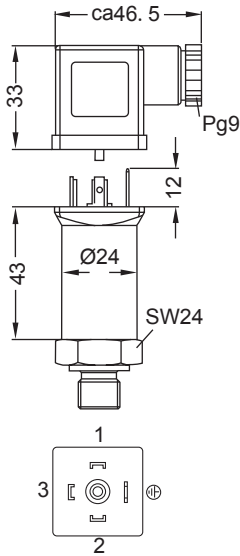
2-wire-system (current)



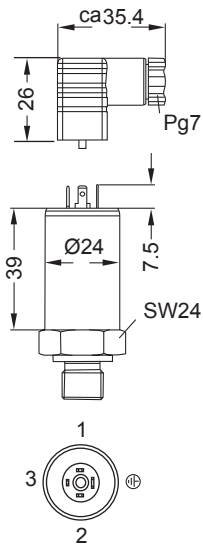
3-wire-system (voltage)



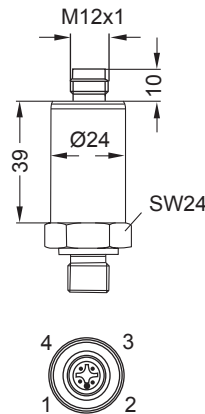
Dimensions (mm)



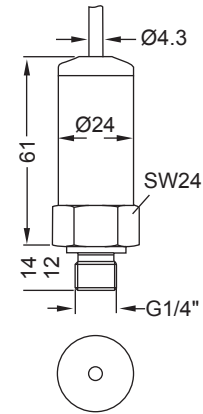
ISO 4400
(IP 65)



Micro
distance 9.4 mm (IP 65)

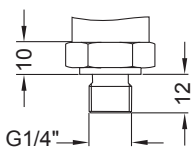


M12x1 4-pin
(IP 67)

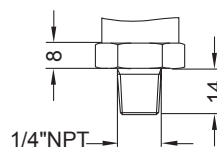


cable outlet
with 2mPVC cable (IP67)

Mechanical connection (mm)



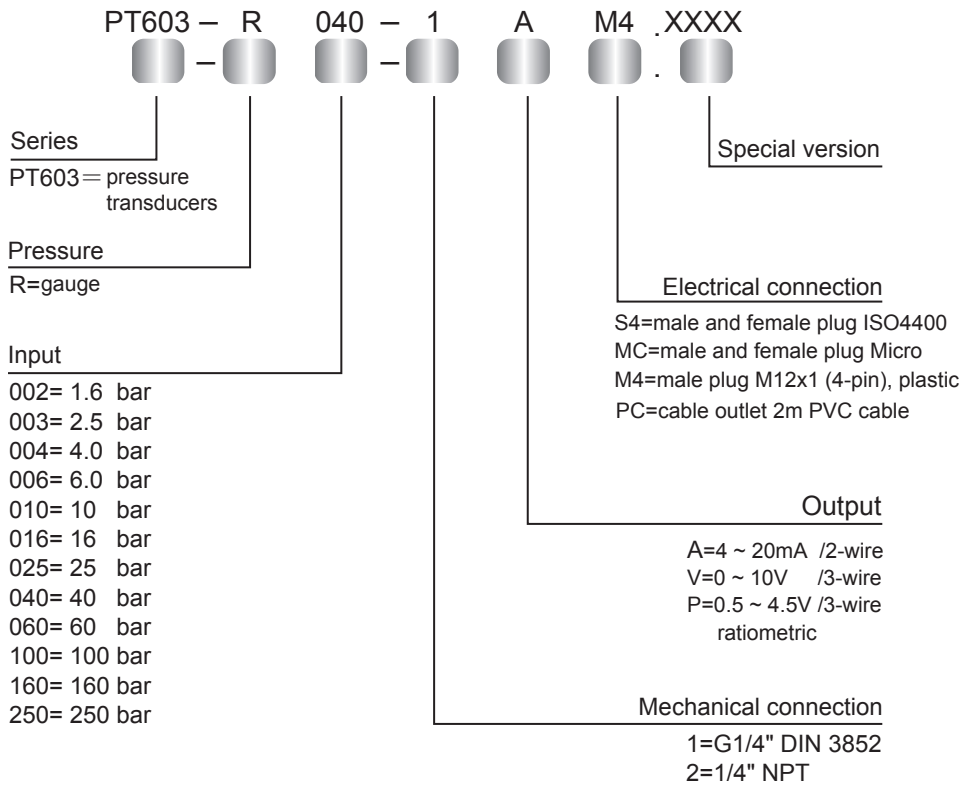
G1/4" DIN 3852



1/4" NPT

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Order code



⚠ Please read the following notice carefully before you selecting the model.

- Attn: 1, For nominal pressure range $P_n \geq 160$ bar accuracy is BFSL; $\leq \pm 1\%$ FSO: IEC 60770: $\leq \pm 2\%$ FSO.
2, Please contact us in advance if you have other requirements.