S-805

SMART LINE Series

Gauge and absolute pressure transmitter



Applications

- Suitable for gas, liquids and steam
- Resistant to corrosive media
- For precision measurements such as tube hydraulic pressure, gas pressure, food&beverage industries, OEM, etc.

Features and benefits

Integral pressure transmitter with

- Stainless steel shell structure
- Built in stainless steel oil filled sensor
- Intelligent digital circuit with precise temperature compensation
- Compact design, space saving

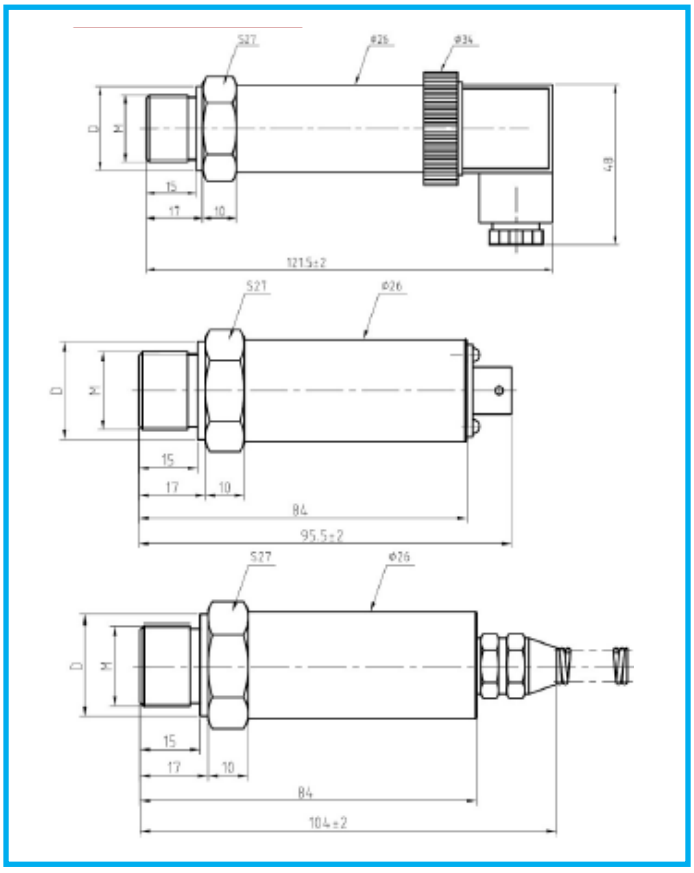




TECHNICAL DATA

Measuring range	-100 kPa-0, 0-0.2~-100 kPa, 0-0.2~1000 kpa, 0-60 MPa, 70 MPa
Type of pressure	Gauge, absolute, sealing pressure
Accuracy	0.2% of full scale, 0.5% of full scale
Measured medium	Liquid, gas, steam
Stability	±0.25% of full scale/year
Zero drift	50% of full range span
Max. overload	200% of sensor range
Response time	1 millisecond (optional for analog type)
Output signal	4~20mA, 1-5 V (optional)
Process temperature	-40~85 °C, -40~150 °C (diaphragm type, clamp type)
Ambient temperature	-40~85 °C
Compensation temperature	-10~70 °C
Mechanical connection	M20×1.5; 1/2-18NPT, 1/4NPT, on customer specification
Display	LED (optional)
Power supply	Non-Ex: 8~30 V DC; Ex-certification pending
Housing material	304 stainless steel

DIMENSIONS

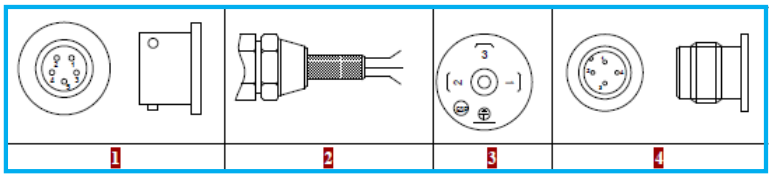


The **S-805 smart pressure transmitter** utilizes advanced piezoresistive sensor technology for cost effective measurements.

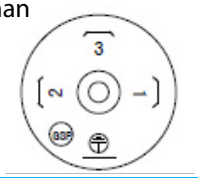
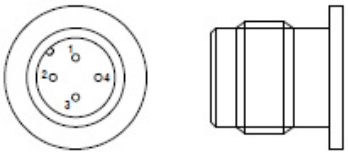
From general purpose to high-precision pressure applications. it is designed to cover the majority of the industrial processes.



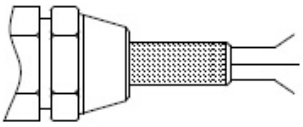
ELECTRICAL CONNECTION



Electrical connection mode

CONNECTOR	2-wire (4-20 mA)			3-wire (0-10V, 0-5V, 0.5-4..5V)		
Hirschman 	Pin	Function	Colour	Pin	Function	Colour
	1	E+/S+	Red	1	E+	Red
	2	E-/S-	Black	2	S+	Blue
	3			3	E-/S-	White
Connection M12, 4 pin 	Pin	Function	Colour	Pin	Function	Colour
	1	E+	Red	1	E+	Red
	2			2		
	3	S+	Black	3	S+	Blue
	4			4	E-/S-	White

NOTE: For zero reset power Pin 1 (+) and Pin 2 (-) with 24 VDC and bridge Pin 3 and 4 for some seconds.

Cable 	Function	Colour	Function	Colour
	E+	Red	E+	Red
	S+	Black	S+	Blue
			E-/S-	White



SELECTION GUIDE

The order code consists of the product root followed by the positions of the selected options (S-WNK-805-...)

S-WNK-805-	Pressure Transmitter
Code	**Pressure type**
A	Absolute pressure
G	Gauge pressure
S	Sealing pressure
Code	**Display**
A	No
L	With display
Code	**Accuracy**
F	0.2% (not for low range)
O	0.5%
Code	**Sensor range**
A1	0-100~1000Pa
A2	0-1.0~10KPa
A3	0-10~35KPa
A4	0-35~100KPa
A5	0-100~400KPa
A6	0-400~600KPa
A7	0-0.6~1.0MPa
A8	0-1.0~2.5MPa
A9	0-2.5~6.0MPa
A10	0-6.0~10MPa
A11	0-10~25MPa
A12	0-25~40MPa
A13	0-40~60MPa



Code	Output
O1	4…20mA
O2	1-5V
O3	0-10V
Code	**Electrical connector**
C1	DIN43650 (Hirschman connector)
C2	M12
C3	Customization
Code	**Process connection**
P1	G1/2"
P2	G1/4"
P3	1/2" NPT male
P4	1/2" NPT female
P5	1/4" NPT male
P6	1/4" NPT female
P7	Flush diaphragm type (standard G1/2)
P8	Clamp
PX	Customization

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