

P201S Series

Diaphragm Sealed Pressure Transmitter



◆ Feature

- Stainless steel flush diaphragm
- All stainless steel 316 construction with Piezoresistive sensing element
- Measuring range from 0~0.1 to 0~100 MPa
- Shock and vibration resistance
- 200% overpressure protection
- Excellent long term stability
- Micro processor based circuit
- Automatic zero setting of convenient push button method

◆ Applications

- The transmitters can be used for pressure measurement in sticky, high viscous
- Foods and Milk Process.
- Level measurement and storage tank installation
- Concentration plant
- Process and chemical engineering
- Pulp and paper stock measurement
- Chemical and petrochemical industry
- Equipment and machinery for plant, ink, resin

Input

Technology	Piezo Resistive silicon pressure sensor, Thin film sensor
Pressure range	0~0.1 to 100 MPa relative pressure 0~0.1 to 100 MPa absolute pressure
Pressure reference	Gauge, absolute, vacuum and compound
Overload	2×full scale without damage

Output

	Current output		Voltage output	
Electrical connection type	2-wire technique		3 or 4-wire technique	
Full scale output signal	20mA	±0.05%	5V	±0.05%
Zero measured output	4mA	±0.03%	1V	±0.03%
	Other signals available on request			

Electrical Specifications

Power supply	12~36V DC
Load resistance max	500 Ω at 24 V
Influence of excitation	0.01% FSO/V
Power ripple	≤500mV P-P

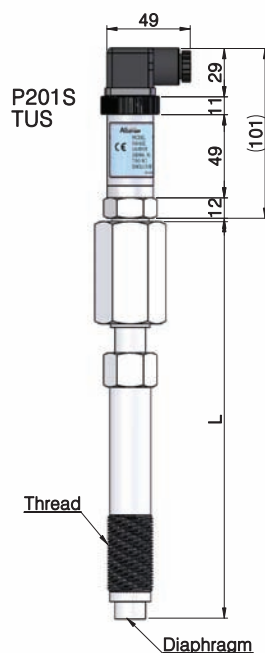
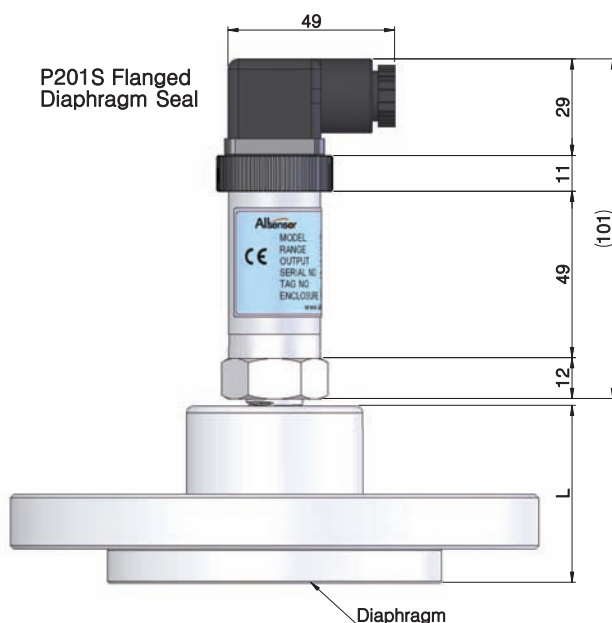
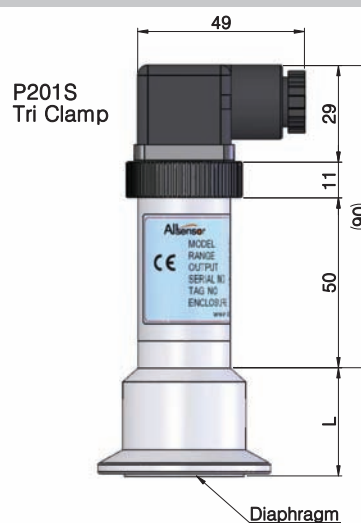
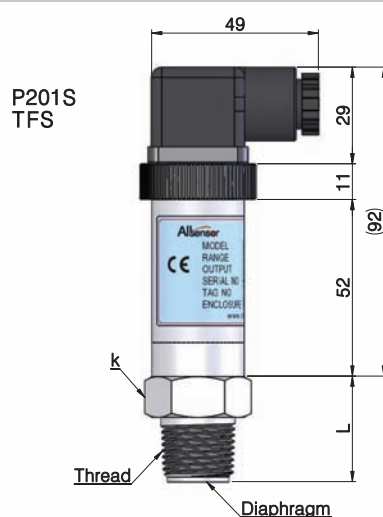
Performance Specifications

Accuracy	≤±0.25% FSO, ±0.5% FSO
Non-linearity	±0.100% FSO typical
Repeatability	±0.015% FSO typical
Pressure hysteresis	±0.010% FSO typical
Long term stability	±0.3% FSO over 6 month
Cutoff frequency(-3dB)	≤2kHz
Reference temperature	25 °C
Operating temperature range (Process)	-20 ~125 °C
Compensated temperature range	0 ~ 50 °C
Thermal sensitivity shift	≤±0.2% FSO in reference to 35 °C typical
Thermal zero shift	≤±0.2% FSO in reference to 35 °C typical
Thermal hysteresis	≤±0.1% FSO in reference to 35 °C typical

Physical Specifications

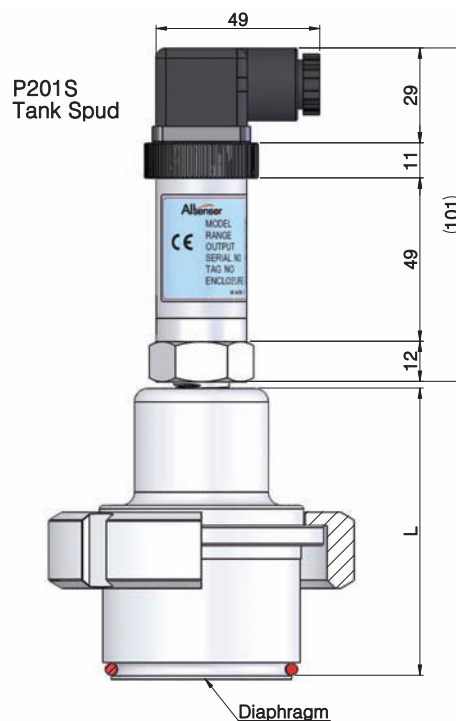
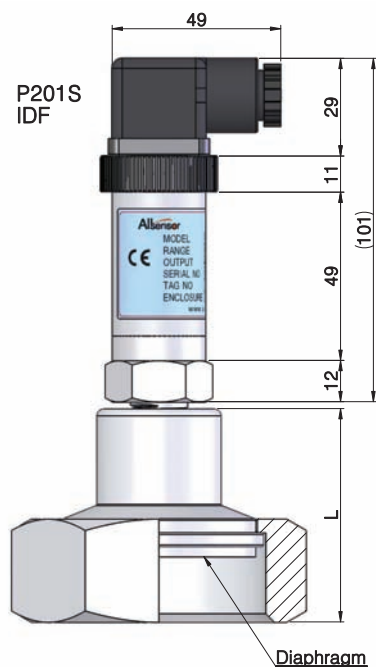
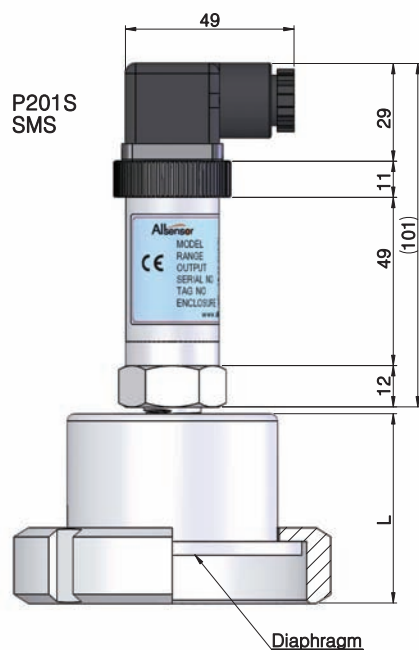
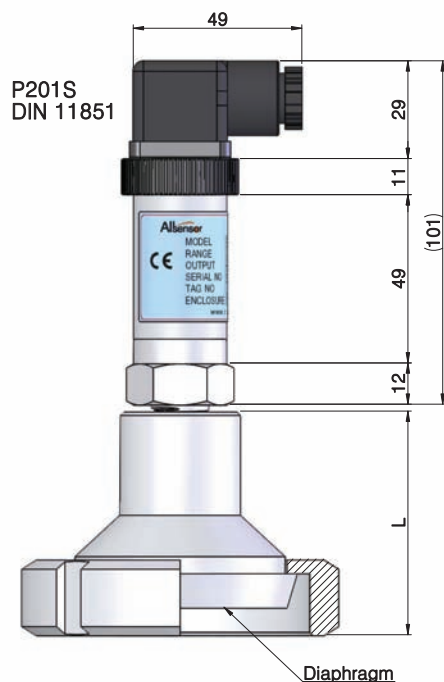
Process connection	Flush Diaphragm
	Other connections available on request
Process media	Gases and liquids compatible with STS316, Hastelloy, Nickel & Tantalum
Materials wetted by process	On request
	Housing : Stainless steel
Enclosure rating	IP65
Influence of mounting position	Not critical
Weight	Approx. 250g
Option	Remote or Flush Diaphragm Seal

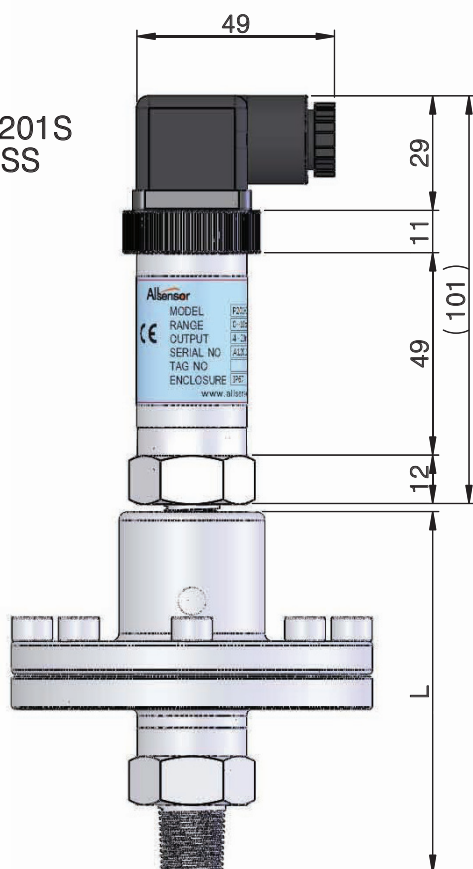
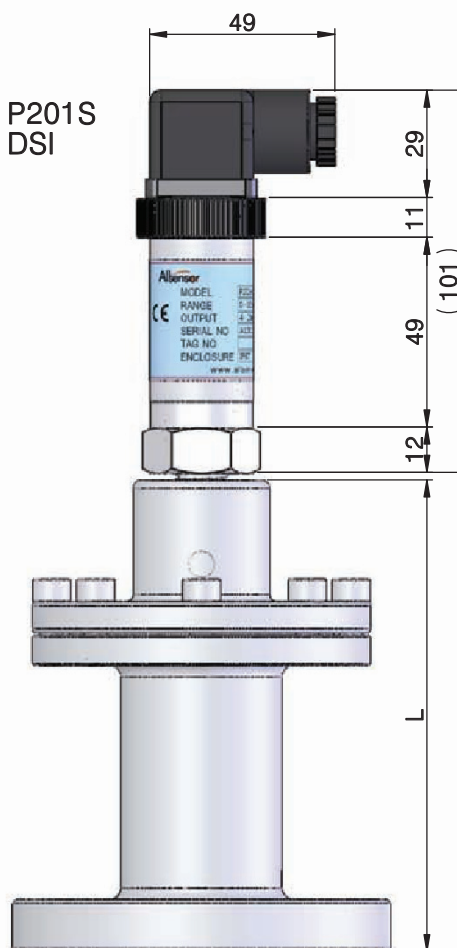
Dimension(mm)



P201S Series

Diaphragm Sealed Pressure Transmitter



P201S
DSS

P201S
DSI


Ordering Information

P 2 0 1 S H 0 0 1 0 B G T D

Model Name

P201S : High accuracy ($\pm 0.25\%$)

Pressure Range

Refer to pressure range code
page 5

Pressure Unit

M : MPa
B : Bar
P : psi
K : kgf/cm²
H : mmH₂O
G : mmHg
T : torr

Process Connection

A : PT 1/2" H : DSI
B : PT 3/4" I : IDF
C : PT 1" S : SMS
D : DIN 11851 T : Tri Clamp
E : TUS U : Tank Spud
F : Flange O : Others
G : DSS

Out Put

H:2Wire 4~20mA F: 4Wire 4~20 mA
A:4Wire mV G: 3Wire 4~20 mA
B:4Wire 0~5V J: 3Wire 0~10V
C:3Wire 0~5V K:4Wire 0~10V
D:4Wire 1~5V
E:3Wire 1~5V

Pressure Type

G:Gauge
C:Compound
V:Vacuum
A:Absolute

Electric Connection

D:DIN 43650