

Application Work Sheet (Pressure)

Quotation

Purchase Order

For better customer satisfaction and to minimize risks, we request you to fill out this form for all application as exactly as possible, when you quotation or place order.

General Information

Client _____ Date _____
Name _____ End-User _____
TEL. No. _____ Project _____
FAX. No. _____ Required delivery _____
Model _____
Quantity _____

Performance Specifications

Temperature Range _____
Operating Range _____
Measuring Unit °C °F
Temperature Sensor RTD _____ T/C _____
Output Signal 4 ~ 20 mA RTD 100Ω RTD 1000Ω T/C
Power Supply 24 V DC 12 V DC

Physical Specifications

Process Connection PT 1/2" PT 3/8"
 1.5S Tri-Clamp 3/4S Tri-Clamp
 10K, 25A Flange 10K, 40A Flange 10K, 50A Flange
 1", 150# Flange 1.5" 150# Flange 2", 150# Flange
 Other _____
Electrical Connection Terminal DIN 43650 Cable(1.5 m)
Local Display Unit None LCD LED

Process Conditions

Process Media _____
Operating Temperature _____
Humidity _____
Vibration _____
Explosion Protection Required No required
Weather Protection Required No required

Pressure Range Code

CODE	kgf/cm ²	bar	psi	MPa
0001	0~1	0~1	0~15	0~0.1
0003	0~3	0~3	0~45	0~0.3
0005	0~5	0~5	0~70	0~0.5
0006	0~6	0~6	0~90	0~0.6
0010	0~10	0~10	0~150	0~1
0015	0~15	0~15	0~200	0~1.5
0020	0~20	0~20	0~300	0~2
0025	0~25	0~25	0~350	0~2.5
0030	0~30	0~30	0~450	0~3
0035	0~35	0~35	0~500	0~3.5
0050	0~50	0~50	0~700	0~5
0070	0~70	0~70	0~1000	0~7
0100	0~100	0~100	0~1500	0~10
0200	0~200	0~200	0~3000	0~20
0250	0~250	0~250	0~3500	0~25
0300	0~300	0~300	0~4500	0~30
0350	0~350	0~350	0~5000	0~35
0500	0~500	0~500	0~7000	0~50
0700	0~700	0~700	0~10000	0~70
1000	0~1000	0~1000	0~15000	0~100
2000	0~2000	0~2000	0~28000	0~200
V0000	-76~0 cmHg	-1013~0 mbar	-30~0 inHg	-0.1~0
V0001	-76 cmHg~1	-1013 mbar~1	-30 inHg~15	-0.1~0.1
V0002	-76 cmHg~2	-1013 mbar~2	-30 inHg~30	-0.1~0.2
V0003	-76 cmHg~3	-1013 mbar~3	-30 inHg~45	-0.1~0.3
V0004	-76 cmHg~4	-1013 mbar~4	-30 inHg~60	-0.1~0.4
V0006	-76 cmHg~6	-1013 mbar~6	-30 inHg~90	-0.1~0.6
V0010	-76 cmHg~10	-1013 mbar~10	-30 inHg~150	-0.1~1
V0015	-76 cmHg~15	-1013 mbar~15	-30 inHg~200	-0.1~1.5
V0020	-76 cmHg~20	-1013 mbar~20	-30 inHg~300	-0.1~2
L0600	0~600 mmH2O	0~60 mbar	0~0.9	0~0.006
L1000	0~1000 mmH2O	0~100 mbar	0~1.5	0~0.01
L2000	0~2000 mmH2O	0~200 mbar	0~3	0~0.02
L3000	0~3000 mmH2O	0~300 mbar	0~4.5	0~0.03
L4000	0~4000 mmH2O	0~400 mbar	0~5.5	0~0.04
L5000	0~5000 mmH2O	0~500 mbar	0~7	0~0.05
00000	Other Range			

P400S Series Diaphragm Sealed Pressure Transmitter



Feature

- Stainless steel flush diaphragm seal
- All welded construction
- Advanced piezoresistive silicon pressure sensor
- Measuring range from 0~0.01 to 0~50 MPa
- Shock and vibration resistance
- Excellent long term stability
- 의장등록 제0285577호

Applications

- The transmitters can be used for pressure measurement in sticky, high viscous and corrosive area
- Foods, beverage(milk) and pharmaceutical industry
- Level measurement and storage tank management
- Concentration plant
- Process and chemical engineering
- Pulp and paper stock measurement
- Chemical and petrochemical industry
- Equipment and machinery for plant, ink, resin

Input

Technology	Advanced piezoresistive silicon pressure sensor
Pressure range	0 ~ 0.01 to 50 MPa Relative pressure
Pressure reference	Gauge, including vacuum & compound
Overload pressure	1.5 times of F.S.

Output

	Current output		Voltage output	
Electrical connection type	2-wire technique		3 or 4-wire technique	
Full scale output signal	20 mA	± 0.1 %	5 V	± 0.1 %
Zero measured output	4 mA	± 0.05 %	1 V	± 0.05 %
	Other signals available on request			

Electrical Specifications

Power supply	12 ~ 36 V DC (It is not free voltage)
Load resistance max@24 V	500 Ω at 24 V
Power ripple	≤ 500 mV P-P
Insulation resistor	≥ 20 MΩ, 25 V DC

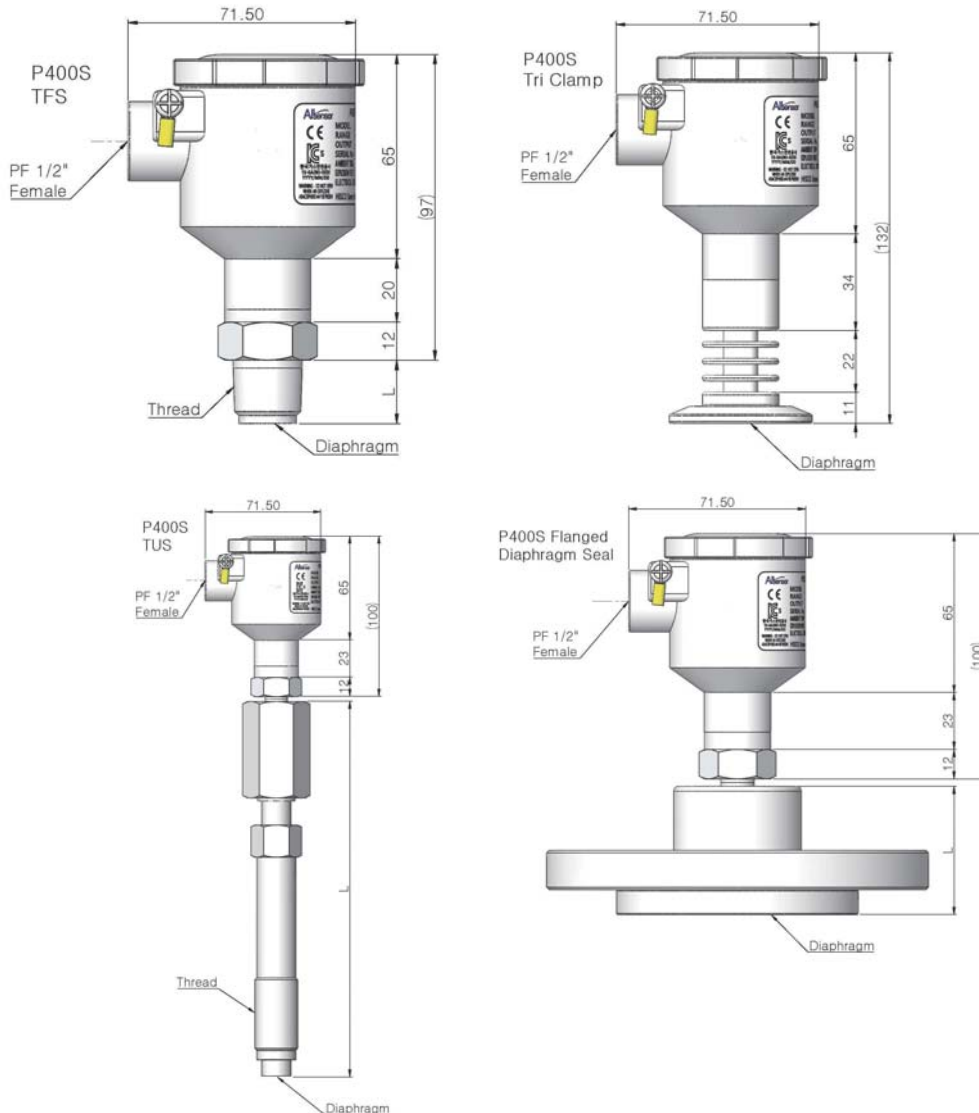
Performance Specifications

Accuracy	≤ ± 0.5 % F.S.
Non-linearity	± 0.100 % F.S. typical
Repeatability	± 0.05 % F.S. typical
Pressure hysteresis	± 0.05 % F.S. typical
Long term stability	± 0.2 % F.S. over 1 year
Response time(10 % to 90 %)	≤ 20 ms
Reference temperature	25 °C
Working temperature range(Process)	-40 ~ 200 °C
Compensated temperature range(Process)	-10 ~ 80 °C
Ambient temperature range	-10 ~ 60 °C
Thermal sensitivity shift	≤ ± 0.2 % F.S. in reference to 35 °C typical
Thermal zero shift	≤ ± 0.2 % F.S. in reference to 35 °C typical

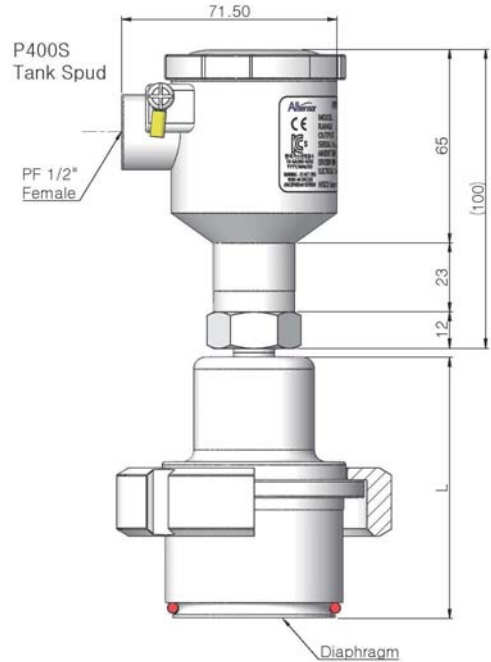
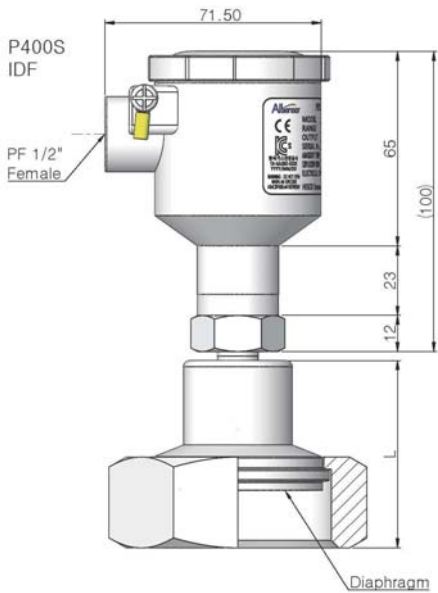
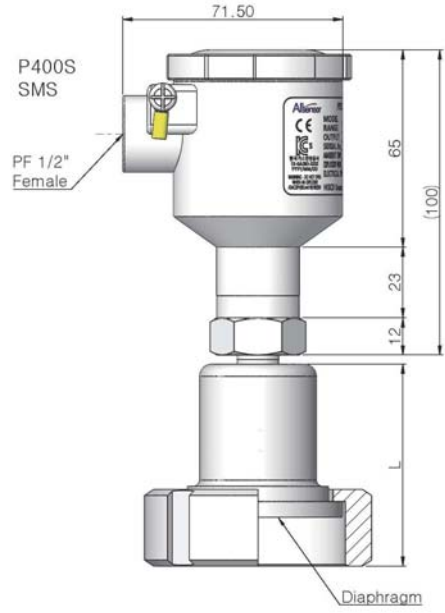
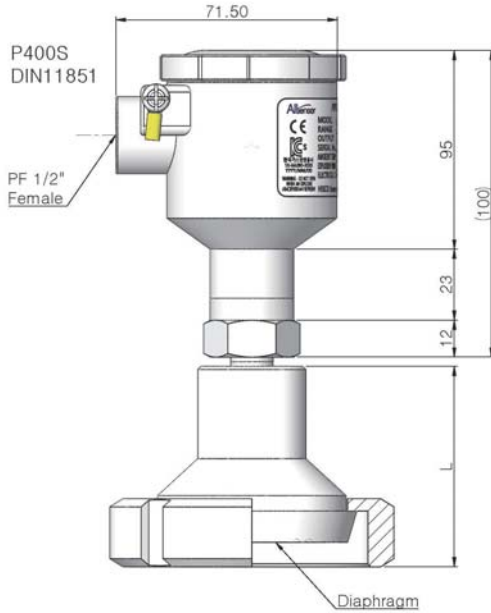
Physical Specifications

Process connection	Flush diaphragm or sanitary diaphragm seal Other connections available on request
Electrical cable entry	G(PF) 1/2" Female
Process media	Gases and liquids compatible with STS316, Hastelloy, Nickel or Tantalum
Materials wetted by process	AISI 316 L (standard) or Nickel, Hastelloy C276, Tantalum & Teflon Coating AISI 304 (housing – non wetted part)
Enclosure rating	IP67
Explosion protection	Ex d II C T6 (KGS)
Influence of mounting position	Not critical
Option	Remote Diaphragm Seal

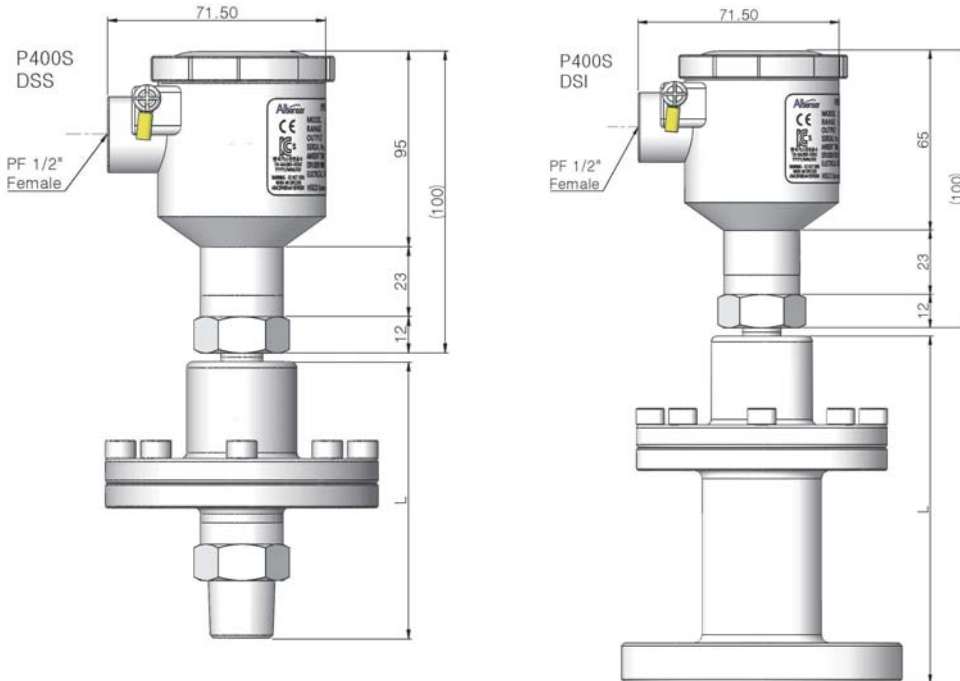
Dimension(mm)



Dimension(mm)



Dimension(mm)



Ordering Information

P	4	0	0	S	G	H	0	0	1	0	M	P	A	T	
Model Name P400S : Diaphragm Sealed Pressure Transmitter						Pressure Range Refer to pressure range code				Pressure Unit M : MPa H : mmH2O B : bar G : mmHg P : psi T : torr K : kgf/cm ²		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 : Extended U : Tank Spud F : Flange O : Others G : DSS			
Pressure Type A : Absolute G : Gauge						Out Put H : 2Wire 4-20 mA				Electrical Cable Entry T : G(PF) 1/2" Female					