Application Work Sheet (Pressure)

☐ Quotation	☐ Purchase Order
	to the customer, please fill this form out when you request a quotation or place an order. vide you the correct solution and minimize a risk which is our goal for the customer.
General Information	
Name TEL. No	Date End-User Project Required delivery
Performance Specif	ications
Pressure Range Operating Range Measuring Unit Pressure reference Output Signal Power Supply	MPa
Physical Specification	ons
Process Connection Electrical Connection Local Display Unit	□ PT 1/4" □ PT 3/8" □ PT 1/2" □ G1/4" □ G1/2" □ PF 1/4" □ PF 3/8" □ PF 1/2" □ NPT1/4" □ NPT1/2" □ Flush 1/2" □ Flush 3/4" □ Flush 1" □ 40A Flange □ 50A Flange □ 80A Flange □ 100A Flange □ Sanitary Diaphragm □ Other □ Terminal □ DIN 43650 □ M12 Connector □ Cable(1.5 m) □ None □ LCD □ LED
Process Conditions	
Process Media Operating Temperature Humidity Vibration Explosion Protection Weather Protection	Required No required Required No required



Pressure Range Code

CODE	kgf/cm²	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 menagement
- 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	$0\sim0.01$ to 50 MPa Relative pressure
Pressure reference	Gauge, inclduing vacuum & compound
Overload pressure	1.5 times of F.S.

Output				
	Current output		Voltage outpu	t
Electrical connection type	2-wire techniqu	e	3 or 4-wire te	chnique
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 av	ailable on request		

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

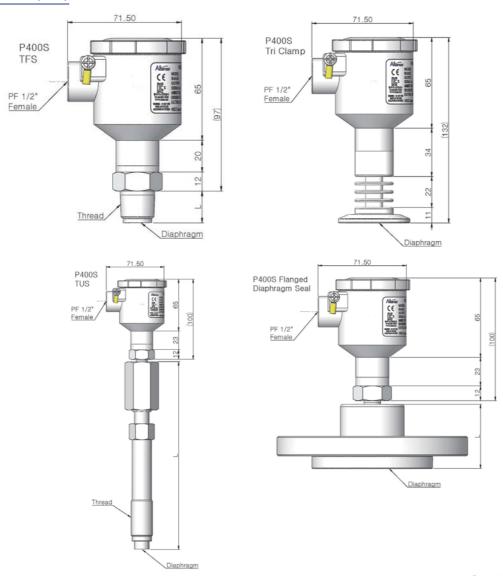
Perfirmance Specifications	
Accuracy	$\leq \pm 0.5 \% F.S.$
Non-linearity	± 0.100 % F.S. typical
Repeatability	± 0.05 % F.S. typical
Pressure hysteresis	± 0.05 % F.S. typical
Long term stability	± 0.2 % F.S. over 1 year
Response time(10 % to 90 %)	≤ 20 ms
Refernce temperature	25 ℃
Working temperature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



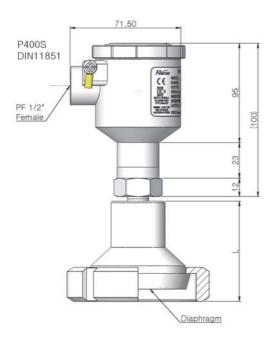
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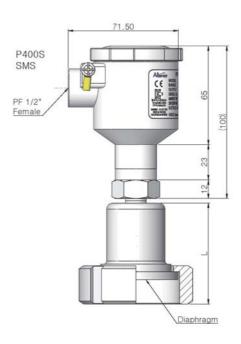
Physical Specifications		
Process connection	Flush diaphragm or sanitary diaphragm seal	
	Other connections available on request	
Electrical cable entry	G(PF) 1/2" Female	
Process media	Gases and liquids compatible with STS316, Hastelloy, Nickel or Tantalum	
Materials wetted by process	STS 316 L (standard) or Nickel, Hastelloy C276, Tantalum & Teflon Coating	
	STS 304 (housing – non wetted part)	
Enclosure rating	IP67	
Explosion protection	Ex d II C T6 (방호장치 의무안전인증 고시 / 고용 노동부 고시 제 2016-54호)	
Influence of mounting position	Not critical	
Option	Remote Diaphragm Seal	

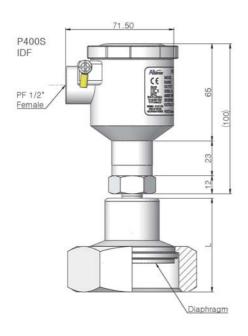
Dimension(mm)

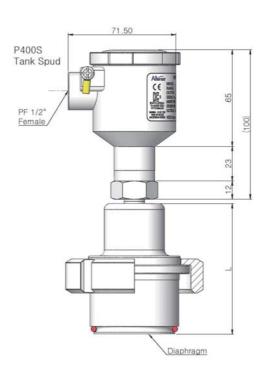


Dimension(mm)





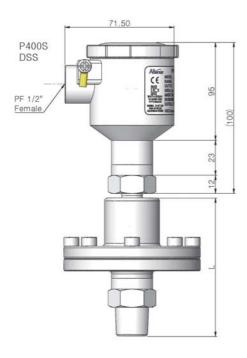


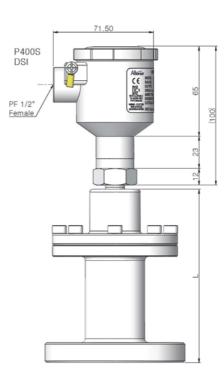




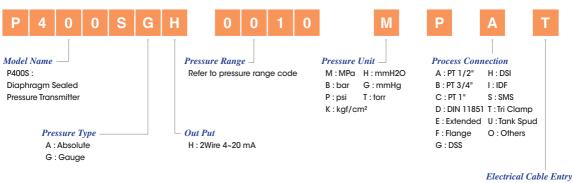
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Dimension(mm)



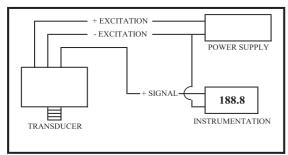


Ordering Information

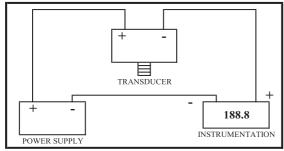


Pressure Transducer & Transmitter

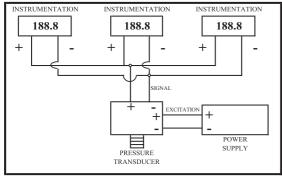
Installation and Wiring



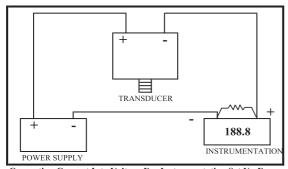
3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)



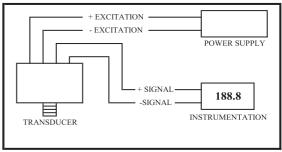
2Wire Configuration for Current output Transducer



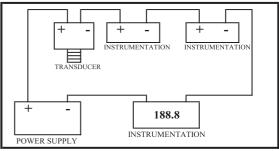
Multiple Instruments Wired In Parallel to a Voltage Output



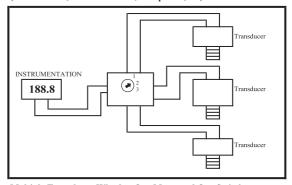
Converting Current Into Voltage For Instrumentation Set Up For Voltage



4Wire Configuration Millivolt Output Transducer



Multi-instrument 4-20mA Current Loop (Panel Meters, Chart Recorder, Computers, etc)



Multiple Transducer Wired to One Meter and One Switch (Transducer With Built-in Zero & Span Adjustments, Same outputs & Same Pressure Range)