P400S Series

Explosion proof Pressure Transmitter

사진은
Tri Clamp Type

■ 특징
컴팩트하게 디자인된 터미널 스테인리스 스틸 헤드
우수한 내식성 및 내마모성
측정 범위는 0~0.01 ~ 10 MPa 게이지 압력입니다.
고급 piezoresistive 실리콘 감지 센서
높은 정확도와 낮은 온도 드리프트
충격 및 진동 저항성
방폭(Ex d IIC T6)
의장등록 제 0285577호
방폭인증번호 : 17-GA2BO-0095X(한국가스안전공사)

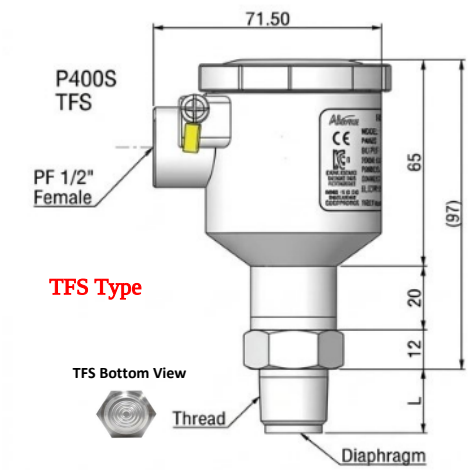
■ 응용분야
이 트랜스미터는 점성이 높고, 점도가 높으며, 부식성 환경에서 압력 측정에 사용할 수 있습니다.
식품, 음료(우유) 및 제약 산업
레벨 측정 및 저장 탱크 관리
농축 설비
공정 및 화학 공학
펄프 및 제지 원료 측정
화학 및 석유화학 산업
플랜트, 잉크, 수지용 장비 및 기계

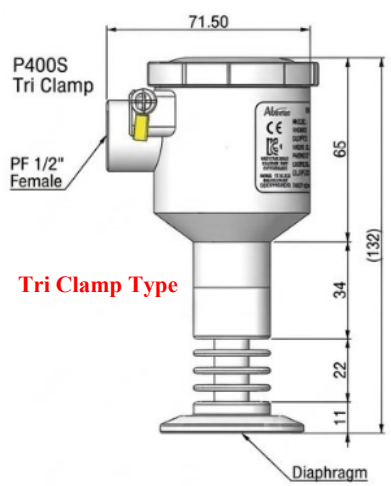
Input	
Technology	Advanced piezoresistive silicon pressure sensor
Pressure range	0~0.01 to 10 MPa Relative pressure
Pressure reference	Gauge, including vacuum and compound
Overload	1.5 times of F.S. (Max. 10 MPa)
Output	
	Current output
Electrical connection type	2-wire technique
Full scale output signal	20mA ±0.1 %
Zero measured output	4mA ±0.05%
	Other signals available on request
Electrical Specifications	
Power supply	12~36V DC (It is not free voltage)
Load resistance max	500 Ω at 24 V
Insulation resistor	≥ 20 MΩ, 25 V DC
Power ripple	≤500mV P-P
Performance Specifications	
Accuracy	≤ ± 0.5% F.S
Non-linearity	± 0.30% FSO. typical
Repeatability	± 0.10% FSO. typical
Pressure hysteresis	± 0.10% FSO. typical
Long term stability	± 0.20% F.S. over 1 year
Response time(10~90%)	≤ 20 ms
Refernce temperature	25 °C
Operating temperature range (Process)	-40~120 °C
Compensated temperature range	-10~70°C(≤ 70 kPa ; 0~60 °C)
Thermal sensutivity shift	≤ ± 0.75% F.S, in reference to 35 °C typical
Thermal zero shift	≤ ± 0.75% F.S, in reference to 35 °C typical

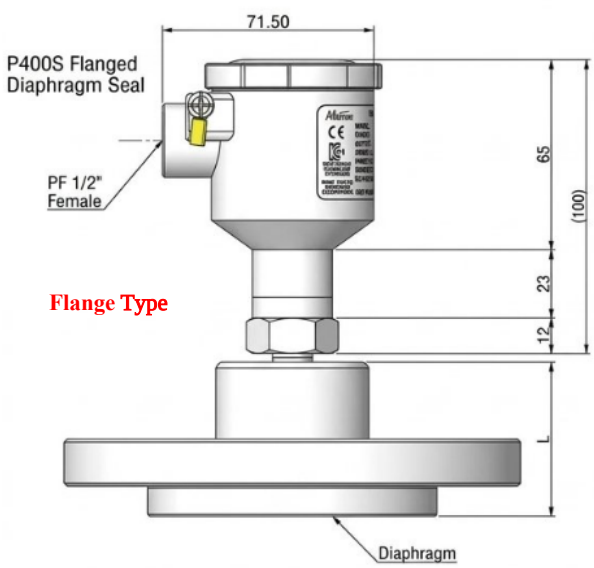
Physical Specifications

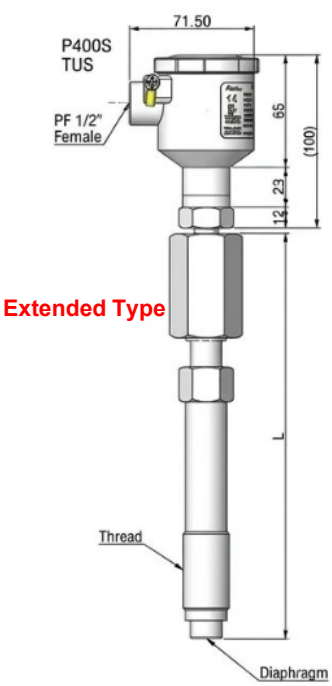
Process connection	Flush diaphragm or sanitary diaphragm seal
	Female thread & other connections are available on request.
Electrical cable entry	G(PF) 1/2" Female
Process media (fluid)	Gases and liquids compatible with STS316L
Materials	Gases and liquids compatible with STS316L, Hastelloy, Nickel or Tantalum
	Housing: STS304
IP grade	IP67
Explosion proof	Ex d IIC T6 (KGS / 방호장치 부속품 안전인증 고시/고용노동부고시 제 2016-54호)
Influence of mounting position	Not critical
Weight	Approx. 800 g + extra (depending on the diaphragm weight)
Option	Remote Diaphragm Seal

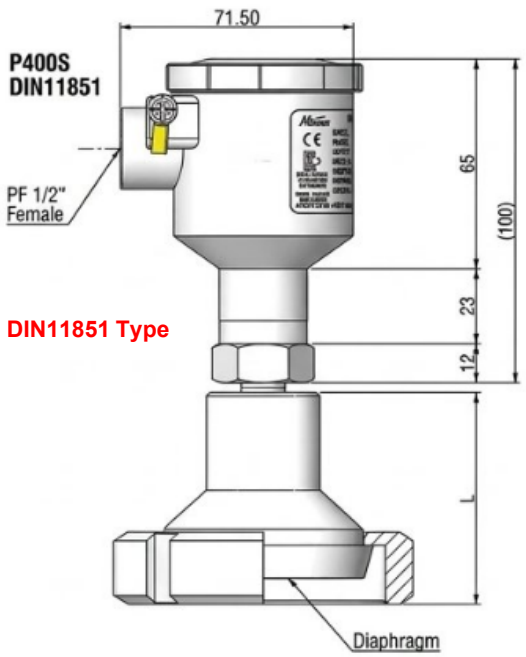
Dimension(mm)



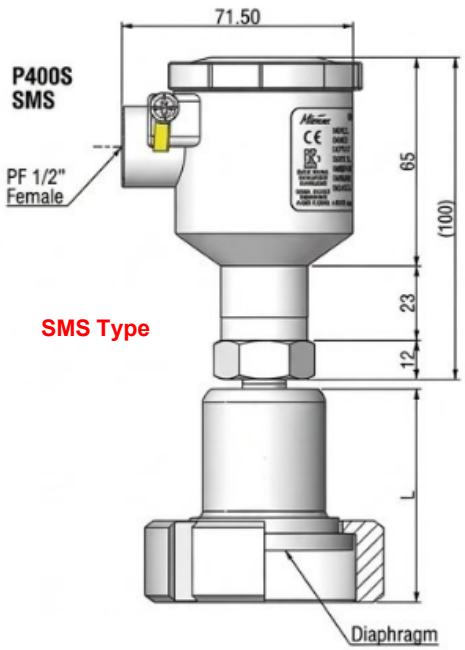




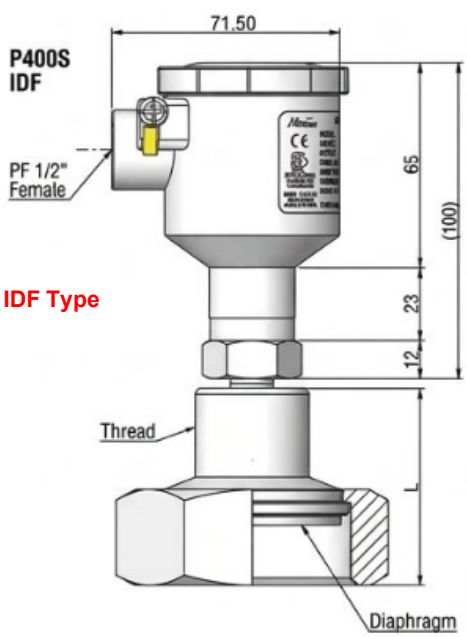




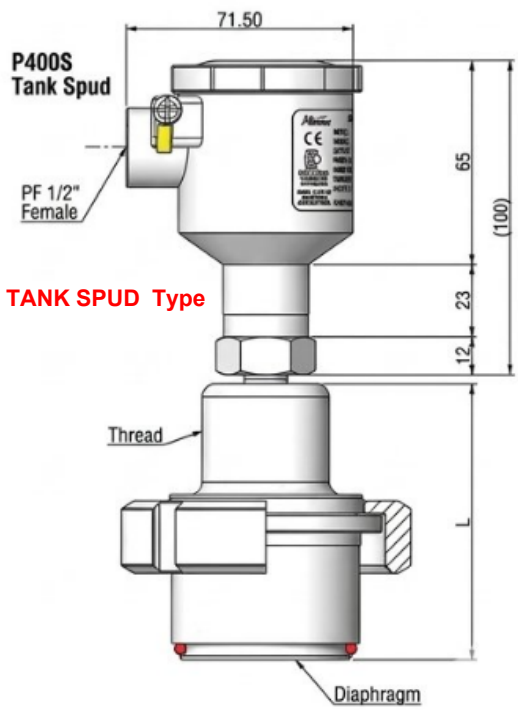
DIN11851 Type



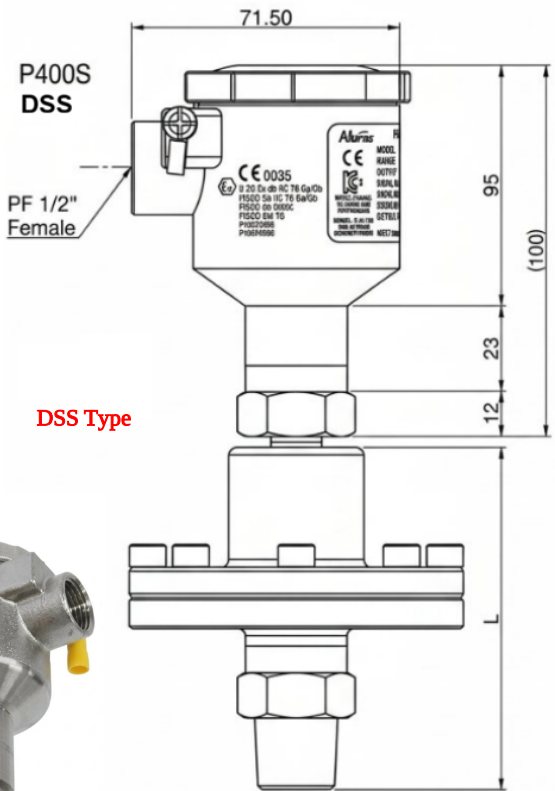
SMS Type



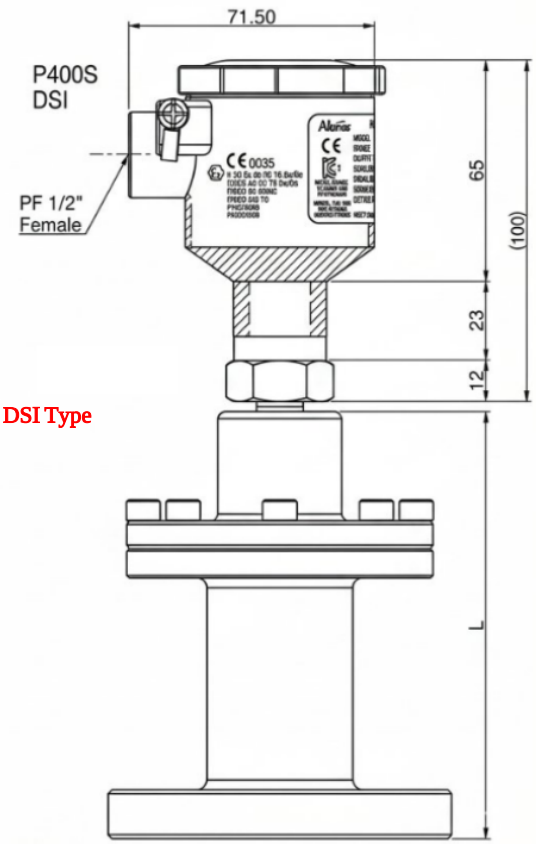
IDF Type



TANK SPUD Type



DSS Type



DSI Type

OPTION COOLING FIN
CP
316SS
Temperature Limit : Max. 200℃

Ordering Information

P	4	0	0	S	G	H	0	0	1	0	M	P	A	T

Model Name
P400S : Explosion proof

Pressure Type
A:Absolute
G:Gauge

Out Put
H:2Wire 4~20mA

Pressure Range
Refer to pressure range code
Select from the next page
Max : 10Mpa

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

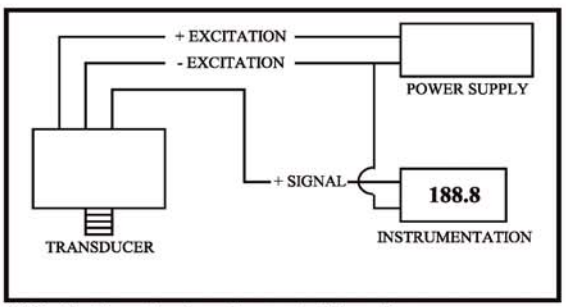
Pressure Sensor
P : Piezo -Resistive

Process Connection
TFS Type
A : PT1/2"
B : PT3/4"
C : PT1"
D : DIN11851
E : Extended
F : Flange
G : DSS
H : DSI
I : IDS
S : SMS
T : Tri Clamp
U : Tank Spud
O : Others

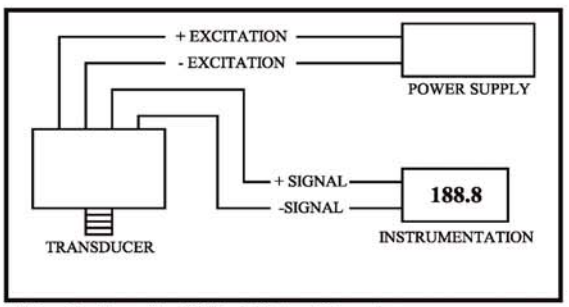
Electrical Cable Entry
T : Terminal
G(PF) 1/2" Female

Pressure Transducer & Transmitter

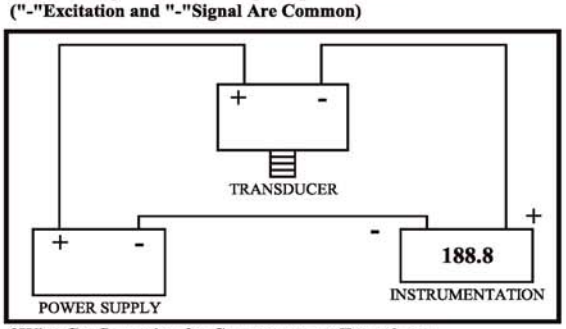
Installation and Wiring



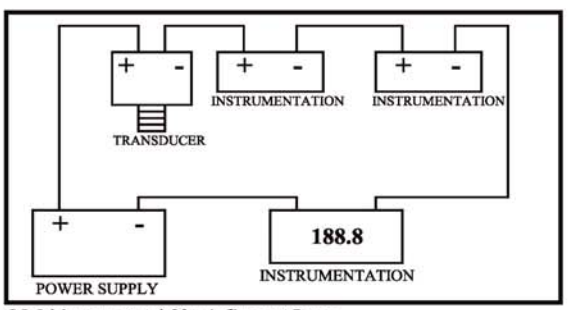
3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)



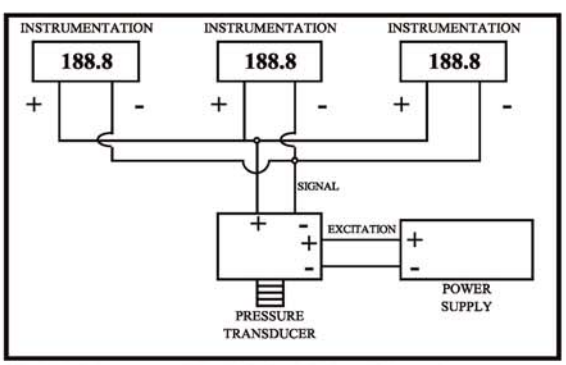
4Wire Configuration Millivolt Output Transducer



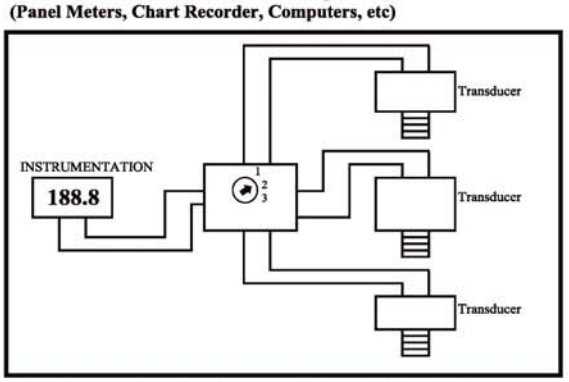
2Wire Configuration for Current output Transducer



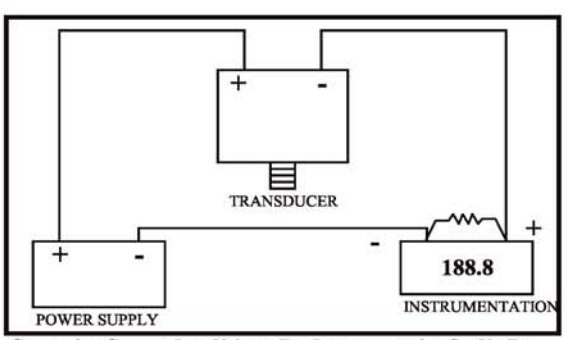
Multi-instrument 4-20mA Current Loop (Panel Meters, Chart Recorder, Computers, etc)



Multiple Instruments Wired In Parallel to a Voltage Output



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



Converting Current Into Voltage For Instrumentation Set Up For Voltage

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