

P400 Series

Explosion proof Pressure Transmitter



■ 특징

컴팩트하게 디자인된 터미널 스테인리스 스틸 헤드
우수한 내식성 및 내마모성
측정 범위는 0~0.01 ~ 500 MPa 게이지 압력입니다.
고급 압저항 또는 SOS 실리콘 감지 센서
높은 정확도와 낮은 온도 드리프트
충격 및 진동 저항성
방폭(Ex d II c T6)
의장등록 제 0285577호

방폭인증번호 : 17-GA2BO-0095X(한국가스안전공사)

■ 응용분야

프로세스 제어 등의 광범위한 응용 분야에 사용됩니다.
유압 및 공압 장비
프레온 및 암모니아 냉장고
공작기계 및 자동기계 흐름 제어
해외 및 국내 산업
화학 및 석유화학 산업
엔진 모니터링 및 제어
철도용 소방장비 및 제동장치

Input

Technology	Advanced piezoresistive or SOS silicon pressure sensor
Pressure range	0~0.01 to 500 MPa Gauge, Vacuum or Compound pressure
	0~0.1 to 3,5 MPa Absolute pressure
Pressure reference	Gauge, including vacuum and compound and absolute
Overload	1.5 times of F.S. (Max. 500 MPa)

Output

	Current output
Electrical connection type	2-wire technique
Full scale output signal	20mA ±0.05%
Zero measured output	4mA ±0.03%
	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

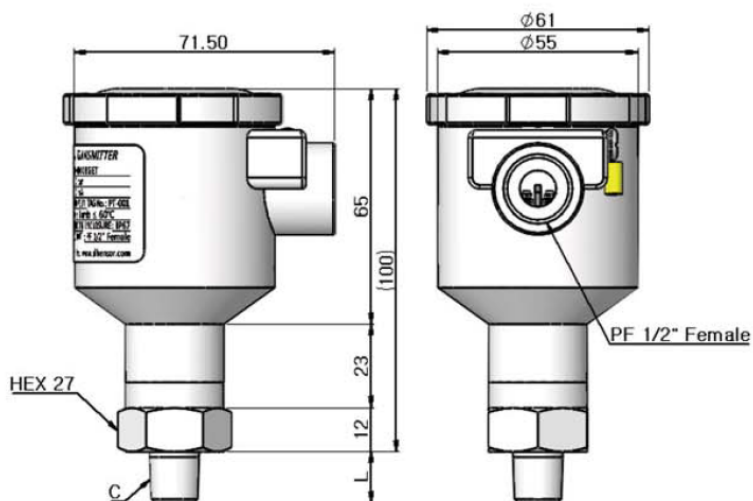
Performance Specifications

Accuracy	≤ ± 0.25% F.S. (100 MPa ≤ ± 0.5% F.S.)
Non-linearity	± 0.15% FSO. typical
Repeatability	± 0.05% FSO. typical
Pressure hysteresis	± 0.05% FSO. typical
Long term stability	± 0.10% F.S. over 1 year
Response time(10~90%)	≤ 20 ms
Reference temperature	25 °C
Operating temperature range (Process)	-40~125 °C
Compensated temperature range	-10~80°C(≤ 35 kPa ; 0~70 °C)
Thermal sensitivity 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	R(PT) 3/8" (M) standard
	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	Wetted parts: STS316L
	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
Option	Remote or Flush Diaphragm Seal

Dimension(mm)



Electric Connection



Process Connection

C	L
PT 1/4" M	14
PT 3/8" M	17
PT 1/2" M	18
7/16" UNF	14
VCR 1/4" M	18

Ordering Information

P	4	0	0	G	H	0	0	1	0	M	P	A	T
Model Name						Pressure Range				Pressure Unit	Process Connection		
P400 : Explosion proof						Refer to pressure range code				M:MPa	A : PT3/8" L : NPT1/4"		
Pressure Type						Select from the next page				B:bar	B : PF3/8" M : NPT3/8"		
A:Absolute										P:psi	C : PT1/4" N : NPT1/2"		
G:Gauge										K:kgf/cm ²	D : PF1/4" P : NPT1/4"(F)		
Out Put										H:mmH ₂ O	E : PT1/2" Q : NPT3/8"(F)		
H:2Wire 4~20mA										G:mmHg	F : PF1/2" R : NPT1/2"(F)		
										T:torr	G : M20x1.5P U : UNF7/16"-20		
											H : PT1/4"(F) V : VCR1/4"		
											I : PT3/8"(F) W : VCR1/2"		
											J : PT1/2"(F) O : Others		
										Pressure Sensor			
										P : Piezo -Resistive			
										H : SOS(Silicon sapphire)			
										S : Strain gage			
										T : Tantalum Diaphragm			
											Electrical Cable Entry		
											T : Terminal		
											G(PF) 1/2" Female		

— 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 mmH ₂ O	0~60mbar	0~0.9	0~0.006
L1000	0~1000 mmH ₂ O	0~100mbar	0~1.5	0~0.01
L2000	0~2000 mmH ₂ O	0~200mbar	0~3	0~0.02
L3000	0~3000 mmH ₂ O	0~300mbar	0~4.5	0~0.03
L4000	0~4000 mmH ₂ O	0~400mbar	0~5.5	0~0.04
L5000	0~5000 mmH ₂ O	0~500mbar	0~7	0~0.05
00000	Other Range			