Application Work Sheet (Pressure)

☐ Quotation ☐ Purchase Order

For better customer satisfaction and to minimize risks, we request you to fill out this foam 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	☐ ℃ ☐ ℉
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/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			

P400 Series Explosion Proofe Pressure Transmitter

Feature

- Compact designed terminal stainless steel head
- Excellent corrosion and abrasion resistances
- From 0 ~ 0.01 to 500 MPa gauge pressure
- Advanced piezoresistive or SOS silicon sensitive sensor
- High accuracy and low temperature drift
- Shock and vibration resistance
- Explosion proof (Ex d II C T6)
- 의장등록 제0285577호

Applications

Wide range of applications such as process control and below.

- Hydraulic system and pneumatic equipments
- Freon and ammonia refrigerator
- Machine tools and automatic machinery flow control
- On and off-shore industry
- Chemical and petrochemical industry
- Engine monitoring and control
- Fire fighting equipments and braking system for railway

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 pressure	1.5 times of F.S. (Max. 500 MPa)

Output

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

Electrical Specifications

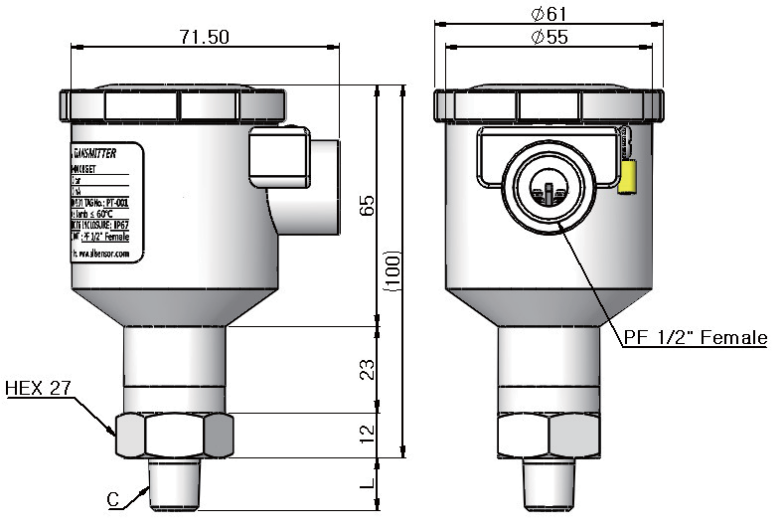
Power supply	12 ~ 36 V DC (It is not free voltage)
Load resistance max@24 V	500 Ω at 24 V
Power ripple	≤ 500 mV P–P
Insulation resistor	≥ 20 MΩ, 25 V DC

Perfirmance Specifications

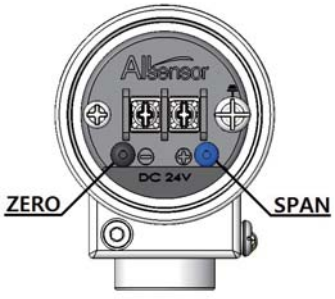
Accuracy	≤ ± 0.25 % F.S. 〉100 Mpa (± 0.5 % F.S.)
Non–linearity	± 0.100 % F.S. typical
Repeatability	± 0.03 % F.S. typical
Pressure hysteresis	± 0.03 % F.S. typical
Long term stability	± 0.1 % F.S. over 1 year
Response time(10 % to 90 %)	≤ 20 ms
Refernce temperature	25 ℃
Working temperature range(Process)	–40 ~1 20 ℃
Compensated temperature range(Process)	–10 ~ 80 ℃
Ambient temperature range	–20 ~ 60 ℃
Thermal sensitivity shift	≤ ± 0.1 % F.S. in reference to 35 ℃ typical
Thermal zero shift	≤ ± 0.1 % F.S. in reference to 35 ℃ typical

Physical Specifications	
Process connection	R(PT) 3/8" (M) standard, ()100 Mpa M20 x 1.5p)
	Female thread & other connections are available on request.
Electrical cable entry	G(PF) 1/2" Female
Process media (fluid)	Gases and liquids compatible with AISI 316
Materials wetted by process	AISI 316
	Stainless steel (housing – non wetted part)
Enclosure rating	IP67
Explosion protection	Ex d II C T6 (KGS)
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"	14
PT 3/8"	17
PF 1/2"	18
UNF7/16"	14

Ordering Information

P	4	0	0	G	H		0	0	1	0	M		P		E				T

Model Name
P400 :
Explosion Proof
Pressure Transmitter

Pressure Type
A : Absolute
G : Gauge

Out Put
H : 2Wire 4~20 mA

Pressure Range
Refer to pressure range code

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

Pressure Sensor
P : Piezo-Resistive
H : SOS

Process Connection
A : PT3/8" G : M20x1.5P
B : PF3/8" L : NPT 1/4"
C : PT1/4" M : NPT 3/8"
D : PF1/4" N : NPT 1/2"
E : PT1/2" V : VCR1/4"
F : PF1/2" W : VCR1/2"
O : Others

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