

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			

Pressure

Temperature

Level

The Other

Diaphragm Seal

Pressure & Temperature

P601 Series Local Display Smart Pressure Transmitter



Feature

- High reliability smart pressure transmitter with local display for industrial application
- from 0~0.01 to 500 MPa
- Advanced piezoresistive or SOS silicon sensitive pressure sensor
- Long term stability
- Customized LCD display with backlight
- Ex d II C T6 / KGS
- HART Communication(Optional)
- 의장등록 제30-0366814호

Applications

The P601 series pressure transmitter is ideal for measurements which require a local display and a need to communicate with remote data acquisition equipment in industrial applications.

- Hydraulic and pneumatic system
- Regulation system of transmission line LPG and LNG
- Machine tools and automatic machinery
- Oil and off-shore industry
- Equipments for chemical petrochemical industry
- Automation system and plant engineering

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 ± 0.03 %	5 V ± 0.05 %
Zero measured output	4 mA ± 0.01 %	1 V ± 0.03 %
Local display	Customized LCD with backlight	

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

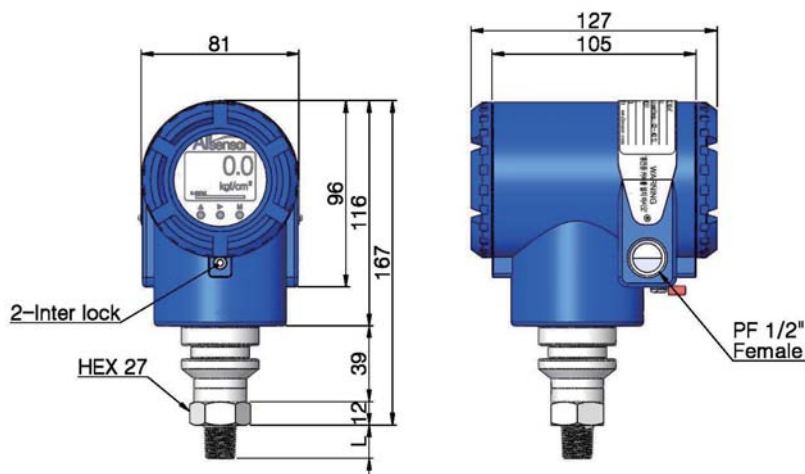
Performance Specifications

Accuracy	≤ ± 0.25 % F.S. (> 100 Mpa ± 0.5 % F.S.)
Non-linearity	± 0.05 % F.S. typical
Repeatability	± 0.02 % F.S. typical
Pressure hysteresis	± 0.02 % F.S. typical
Long term stability	± 0.05 % F.S. over 1 year
Response time(10 % to 90 %)	≤ 20 ms
Reference temperature	25 °C
Working temperature range(Process)	-40 ~ 120 °C
Compensated temperature range(Process)	-10 ~ 80 °C
Ambient temperature range	-20 ~ 60 °C
Thermal sensitivity shift	≤ ± 0.05 % F.S. in reference to 35 °C typical
Thermal zero shift	≤ ± 0.05 % F.S. in reference to 35 °C typical

Physical Specifications

Process connection	R(PT) 3/8" (M) standard (>100 Mpa M20 x 1.5p) Other connections available on request
Process media	Gases and liquids compatible with AISI 316L
Materials	Wetted parts : ANSI 316L Housing & rear cover : Aluminum Die-casting(Al-remainder, Si-10.682 Fe-0.722, Cu-2.102, Mn-0.177, Mg-0.246, Sn-0.028, Ni-0.035, Zn-0.978, Ti-0.017, Zr-0.001, Pb-0.005) Front cover : Aluminum Die-casting & Tempered glass adhesion assembly(Cemented joint, Loctite243)
Enclosure rating	IP67
Explosion protection	Exd II C T6 (방호장치 의무안전인증 / 고용노동부고시 제2013-54호)
Vibration	0.1 g(1/M/s/s) Maximum
Weight	Approx.(1.5 kg)

Dimension(mm)



Ordering Information

P601GH					0010				M	P	E	T
Model Name P601 : Local Display Smart 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/cm²		Process Connection A : PT3/8" G : M20 x 1.5P 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	
Pressure Type A : Absolute G : Gauge					Out Put H : 2Wire 4~20 mA				Pressure Sensor P : Piezo-Resistive H : SOS T : Tantalum Diaphragm		Electrical Cable Entry T : G(PF) 1/2" Female	