Application Work Sheet (Pressure)

□ Purchase Order

For better support to the customer, please fill this form out when you request a quotation or place an order. It will help us to provide you the correct solution and minimize a risk which is our goal for the customer.

General Information

Client Name TEL. No. FAX. No. Model Quantity	Date End-User Project Required delivery
Performance Specif	ications
Pressure Range Operating Range Measuring Unit Pressure reference Output Signal Power Supply	□ MPa □ bar □ kPa □ mmHg □ mmH2O □ mbar □ kgf/cm2 □ Torr □ psi □ ℃ □ ℉ □ mV/V □ 4 ~ 20 mA □ 1 ~ 5 V □ 0 ~ 10 V □ 24 V DC □ 12 V DC
Physical Specificati	ons
Process Connection Electrical Connection Local Display Unit	
D	
Process Conditions	
Process Media Operating Temperature Humidity Vibration Explosion Protection Weather Protection	

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	$-30\sim$ 0 inHg	-0.1~0
V0001	$-76 \text{ cmHg}{\sim}1$	−1013 mbar~1	−30 inHg~15	-0.1~0.1
V0002	76 cmHg~2	−1013 mbar~2	-30 inHg \sim 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 \sim 60	-0.1~0.4
V0006	76 cmHg~6	−1013 mbar~6	-30 inHg \sim 90	-0.1~0.6
V0010	-76 cmHg∼10	−1013 mbar~10	−30 inHg~150	-0.1~1
V0015	−76 cmHg~15	-1013 mbar \sim 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			

P601N Series Digital Pressure Switch & Transmitter



Feature

- High reliability digital pressure switch & transmitter with local display for industrial application
- Measuring ranges from 0~0.01 to 100 MPa
- · Advanced piezoresistive or SOS silicon senstive pressure sensor
- · Long term stability
- · Customized LCD display with backlight
- Ex d II C T6 / KGS
- 의장등록 제30-0366814호

Applications

The P601N series pressure Switch & transmitter is ideal for measurements which require a local display and a need to 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

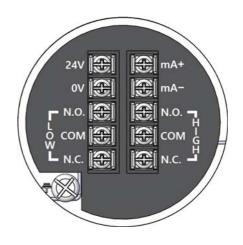
Input			
Technology	Advanced piezoresistive or SOS silicon sensitive p	pressure sensor	
Pressure range	0 \sim 0.01 to 100 MPa Gauge, Vacuum or Compound pressure		
	$0\sim 0.1$ to 3.5 MPa Absolute pressure		
Pressure reference	Gauge, including vacuum and compound and absolute		
Overload pressure	1.5 times of F.S. (Max. 100 MPa)		
Output			
Current out put signal	4 to 20 mA DC	Voltage output	
Relay out put	2 x SPDT(5 A @ 30 V DC, 0.5 A @ 125 V AC)	3 or 4 Wire technique	
	Other out put signal available on request		
Local display	Customized LCD with backlight		
Electrical Specifications			
Power supply	24 V DC		
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	\leq ± 0.25 % 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 %)	\leq 20 ms		
Refernce temperature	25 °C		
Working temperature range(Process)	$-40 \sim 120 \text{ °C}$		
Compensated temperature range(Process)	$-10 \sim 80 \ ^\circ \mathrm{C}$		
Ambient temperature range	$-20 \sim 60 \ \text{°C}$		
Thermal sensitivity shift	\leq ± 0.05 % F.S. in reference to 35 °C typical		
Thermal zero shift	\leq ± 0.05 % F.S. in reference to 35 °C typical		

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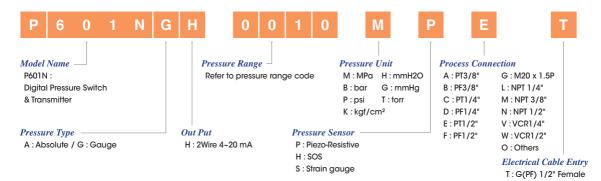
Physical Specifications			
Process connection	Rc(PT) 3/8" (M) standard		
	Other connections available on request		
Process media	Gases and liquids compatible with STS 316L		
Materials	Wetted parts : STS 316L		
	Housing & rear cover : Aluminum Die-casting(Al-remainder, Si-10.682		
	Fe-0.722, Cu-2.102, 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

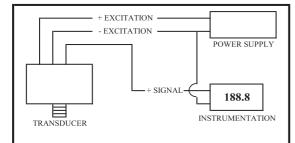


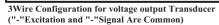
Pressure & Temperature

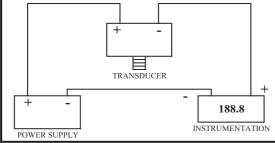
Pressure

Pressure Transducer & Transmitter

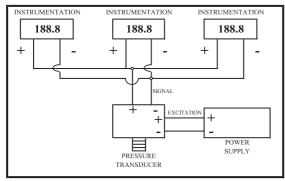
Installation and Wiring



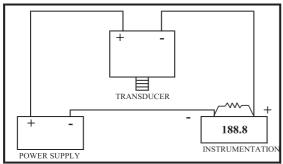




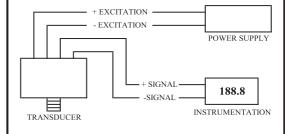
2Wire Configuration for Current output Transducer



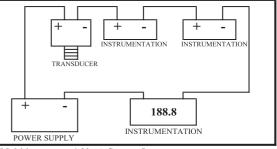
Multiple Instruments Wired In Parallel to a Voltage Output



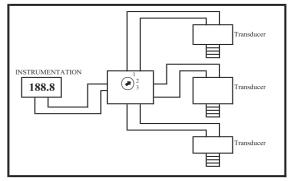
Converting Current Into Voltage For Instrumentation Set Up For Voltage







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)