Application Work Sheet (Pressure)

☐ Quotation	☐ 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					
Name TEL. No	Date End-User Project Required delivery				
Performance Specif	ications				
Pressure Range Operating Range Measuring Unit Pressure reference Output Signal Power Supply					
Physical Specification	ons				
Process Connection Electrical Connection Local Display Unit	□ PF 1/4" □ PF 3/8" □ PF 1/2" □ NPT1/4" □ NPT1/2" □ Flush 1/2" □ Flush 3/4" □ Flush 1" □ 40A Flange □ 50A Flange □ 80A Flange □ 100A Flange □ Sanitary Diaphragm □ Other				
Process Conditions					
Process Media Operating Temperature Humidity Vibration Explosion Protection Weather Protection	Required No required 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 $0 \sim 0.01$ 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	The lighting equipments and braking system for fairway
Technology	Advanced piezoresistive or SOS silicon pressure sensor
Pressure range	$\rm 0 \sim 0.01~to~500~MPa~Gauge,~Vacuum~or~Compound~pressure$
	$0\sim0.1$ 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)

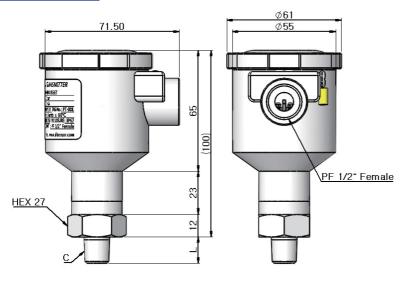
Output Current output Voltage output 3 or 4 Wire technique 2-wire technique Electrical connection type ± 0.05 % Full scale output signal 20 mA \pm 0.05 % 5 V Zero measured output 4 mA \pm 0.03 % 1 V \pm 0.03 % Other signals available on request

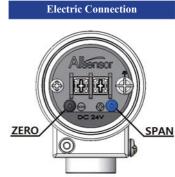
Electrical Specifications	
Power supply	12 \sim 36 V DC (It is not free voltage)
Load resistance max@24 V	500 Ω at 24 V
Power ripple	≤ 500 mV P-P
Insulation resistor	≥ 20 MΩ, 25 V DC

Perfirmance Specifications	
Accuracy	\leq ± 0.25 % F.S. \rangle 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 °C
Compensated temperature range(Process)	−10 ~ 80 °C
Ambient temperature range	-20 ~ 60 ℃
Thermal sensitivity shift	\leq ± 0.1 % F.S. in reference to 35 °C typical
Thermal zero shift	\leq ± 0.1 % F.S. in reference to 35 °C typical



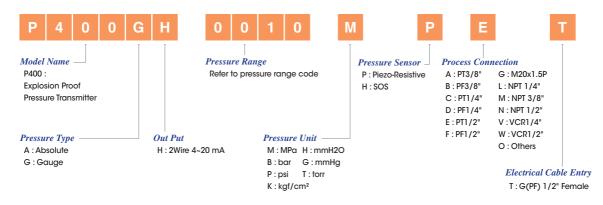
Dimension(mm)





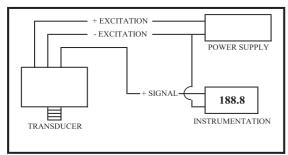
Process Connection		
С	L	
PT 1/4"	14	
PT 3/8"	17	
PF 1/2"	18	
UNF7/16"	14	

Ordering Information

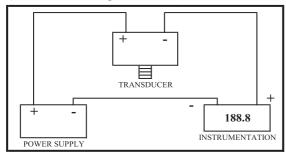


Pressure Transducer & Transmitter

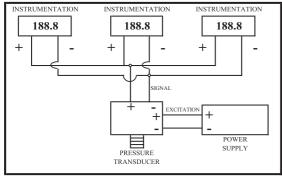
Installation and Wiring



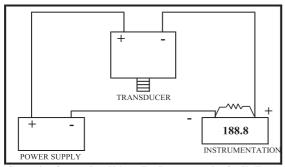
3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)



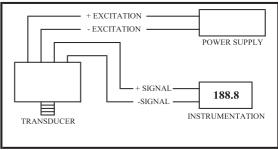
2Wire Configuration for Current output Transducer



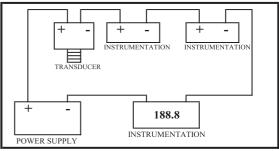
Multiple Instruments Wired In Parallel to a Voltage Output



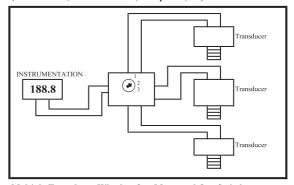
Converting Current Into Voltage For Instrumentation Set Up For Voltage



4Wire Configuration Millivolt Output Transducer



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)