# **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	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	Operating Range  Measuring Unit				
Physical Specification	ons				
Process Connection       PT 1/4"       PT 3/8"       PT 1/2"       G1/4"       G1/2"         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         Electrical Connection       Terminal       DIN 43650       M12 Connector       Cable(1,5 m)         Local Display Unit       None       LCD       LED					
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	-76~0 cmHg		-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	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	~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				

### P201 Series General Purpose Pressure Transmitter



#### **Feature**

- General purpose pressure transmitter for industrial applications
- Measuring ranges from 0~0.01 to 100 MPa, including vacuum & compound
- Advanced Piezoresistive or SOS measuring cell
- All welded structure(Except < 1 bar)
- Excellent accuracy and long term stability

#### **Applications**

Wide range of applications such as process control and below.

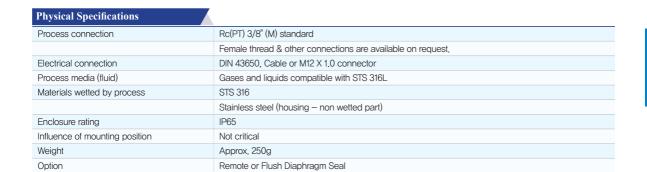
- Hydraulic system and pneumatic equipments
- Freon and ammonia refrigerator
- Machine tools and automatic machinery flow control
- On and off-shore industry
- · Chemical and petrochemical industry
- Engine monitoring and control
- Fire fighting equipments and braking system for railway

Input	
Technology	Piezoresistive silicon pressure sensor, thin film or strain gauge
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, compound and absolute
Overload pressure	1.5 times of F.S. (Max. 100 MPa)

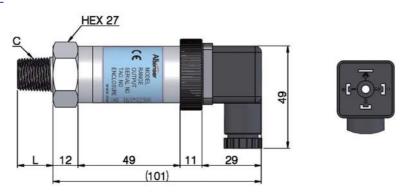
Output					
	Current output	Current output		Voltage output	
Electrical connection type	2Wire technique	2Wire technique		3 or 4 Wire technique	
Full scale output signal	20 mA	± 0.05 %	5 V	± 0.05 %	
Zero measured output	4 mA	± 0.03 %	1 V	± 0.03 %	
	Other signals av	Other signals available on request			

<b>Electrical Specifications</b>	
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 MQ 25 V DC

Perfirmance Specifications			
Accuracy	$\leq \pm 0.25 \% F.S.$		
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 ∼ 120 °C		
Compensated temperature range(Process)	-10 ~ 80 °C		
Ambient temperature range	-20 ~ 60 °C		
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		

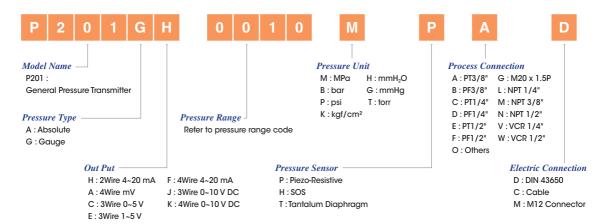


#### **Dimension(mm)**



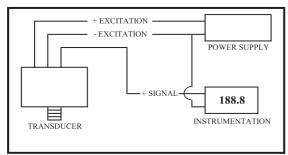
Process Connection		Output	mV	V, mA	V, mA	mA
		Wire	4 Wire	4 Wire	3 Wire	2Wire
С	L	①, Red	Excitation +	Power +	Power +	Power +
PT 1/4"	14	②, Black	Excitation –	Power –	Common	Return –
PT 3/8"	17	③, Green	Signal +	Signal +	Signal +	
PF 1/2"	18	<ol><li>White</li></ol>	Signal –	Signal –		
UNF7/16"	14	Power	V	12~33 V DC		

#### **Ordering Information**

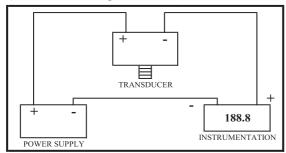


## **Pressure Transducer & Transmitter**

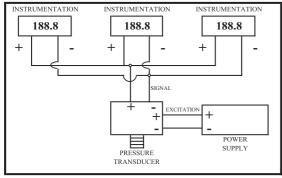
### **Installation and Wiring**



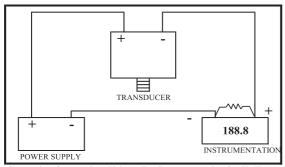
3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)



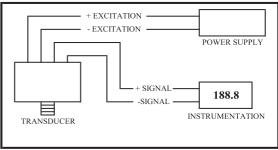
2Wire Configuration for Current output Transducer



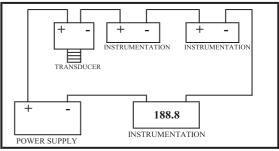
Multiple Instruments Wired In Parallel to a Voltage Output



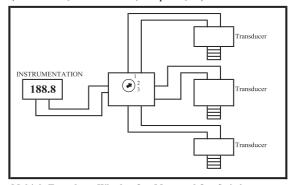
Converting Current Into Voltage For Instrumentation Set Up For Voltage



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)