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

Client		Date	
Name		End-User	
TEL. No.		Project	
FAX. No.		Required delivery	
Model			
Quantity			

Performance Specifications

Pressure Range	
Operating Range	
Measuring Unit	☐ MPa ☐ bar ☐ kPa ☐ mmHg ☐ mmH2O ☐ mbar
Pressure reference	☐ kgf/cm2 ☐ Torr ☐ psi ☐ ℃ ☐ ℉
Output Signal	☐ mV/V ☐ 4 ~ 20 mA ☐ 1 ~ 5 V ☐ 0 ~ 10 V
Power Supply	☐ 24 V DC ☐ 12 V DC

Physical Specifications

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	☐ 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			

P201D Series Differential Pressure Transmitter

Feature

- Measuring ranges from 0.01 to 3MPa diff.
- Monocrystalline silicon measuring cell
- Excellent accuracy and long term stability
- Patented double overpressure protection (16MPa)
- 40MPa high working pressure

Applications

The differential pressure transmitter can be used for a wide range of application in process control below

- HVAC
- Chemical, food and drug process monitoring
- Hydraulic and pneumatic system
- Machine tools and automatic machinery
- LPG and LNG filter monitoring

Input	
Technology	Monocrystalline silicon D/P Cell
Pressure range	0 ~2 kPa ····· 3 MPa
Pressure reference	Differential pressure
Overload pressure	Max. 16 MPa
Working pressure	Max. 40 MPa

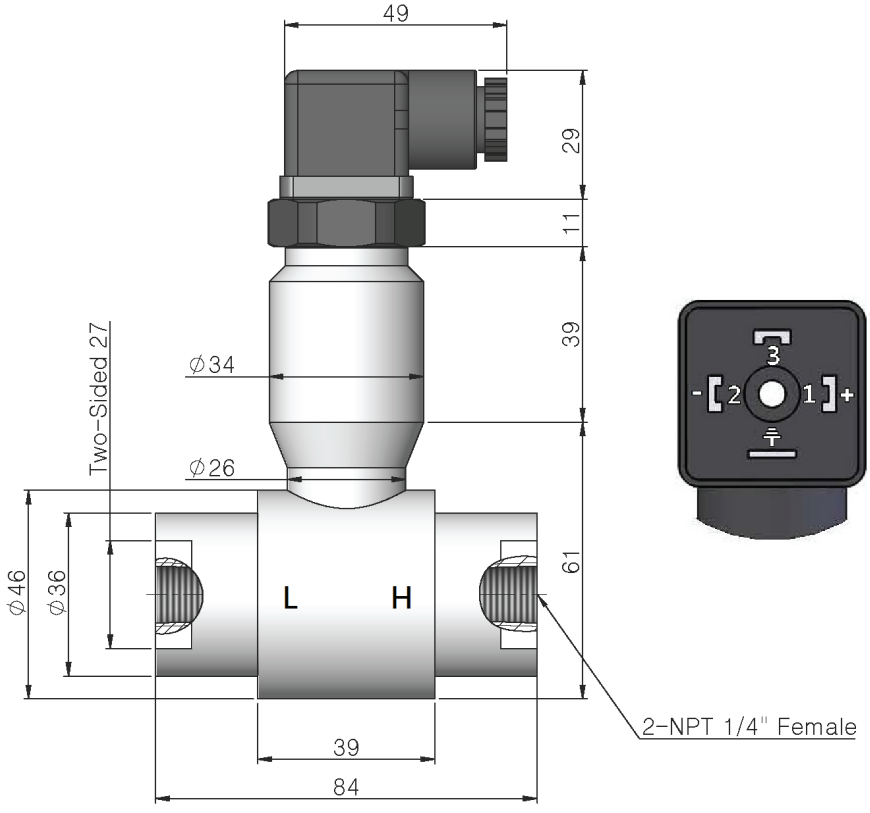
Output	
Output signal	4~20 mA (2-wire current output)
Voltage output signal	Other signals available on request

Electrical Specifications	
Power supply	12~28 V DC (It is not free voltage)
Maximum load resistance	500 Ω at 24 V
Power ripple	≤ 500 mV P-P
Insulation resistor	≥ 100 MΩ, 25 V DC

Performance Specifications	
Accuracy	≤ ± 0.5 % F.S.
Non-linearity	± 0.100 % F.S. typical
Repeatability	± 0.05 % F.S. typical
Pressure hysteresis	± 0.05 % F.S. typical
Long term stability	± 0.1 % F.S. over 1 year
Response time (10 % to 90 %)	≤ 1 ms (Up to 90% F.S.)
Reference temperature	25 ℃
Working temperature range (Process)	-40 ~ 85 ℃
Compensated temperature range (Process)	-20 ~ 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	NPT 1/4" Female (standard)
Electrical connection	DIN 43650
Materials	Gases ans liquids compatible with STS316L
	STS316L (diaphragm - wetted part)
	Stainless steel (housing - non wetted part)
Enclosure rating	IP65
Explosion protection (option)	None
Mechanical vibration	20 g (20 ~ 5000 Hz)
Shock	100 g (11ms)
Weight	Approx 1 kg

Dimension(mm)



Ordering Information

P	2	0	1	D	H	0	0	0	5	M	M	P	D

Model Name
P201D :
D/P Transmitter

Pressure Type
D : Differential

Out Put
H : 2Wire 4~20 mA
E : 3Wire 1~5 V

Pressure Range
Refer to pressure range code

Pressure Unit
B : bar
H : mmH2O
P : psi

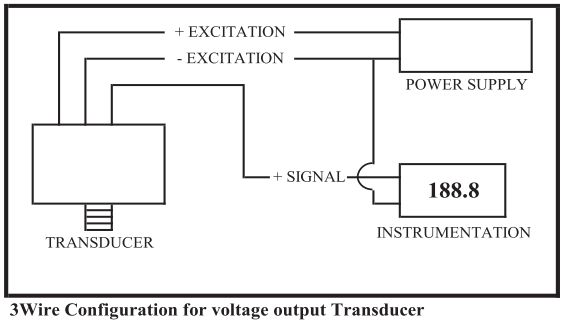
Pressure Sensor
M : Monocristalline

Process Connection
P : NPT 1/4"(F)

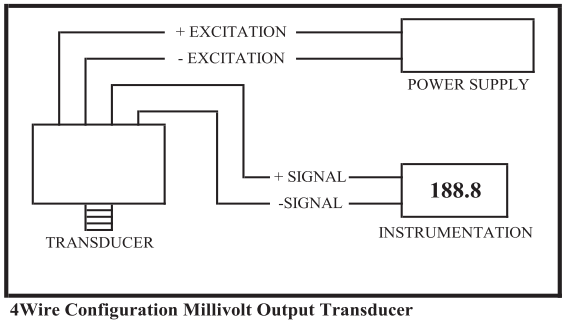
Electric Connection
D : DIN 43650
C : Cable
M : M12 Connector

Pressure Transducer & Transmitter

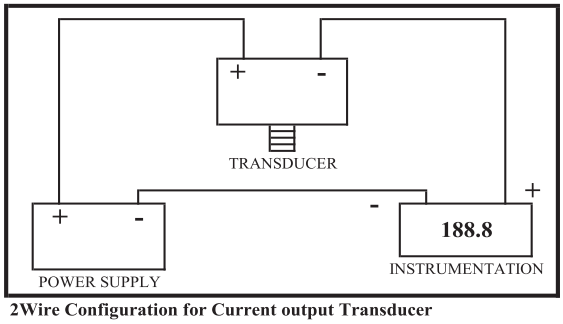
Installation and Wiring



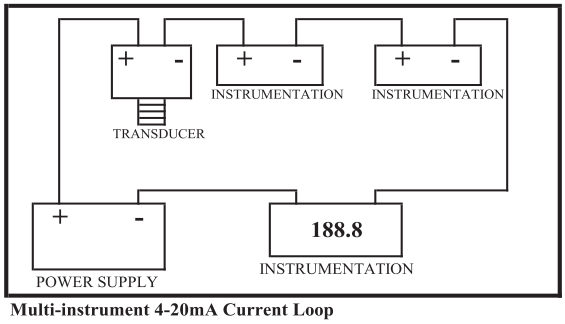
3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)



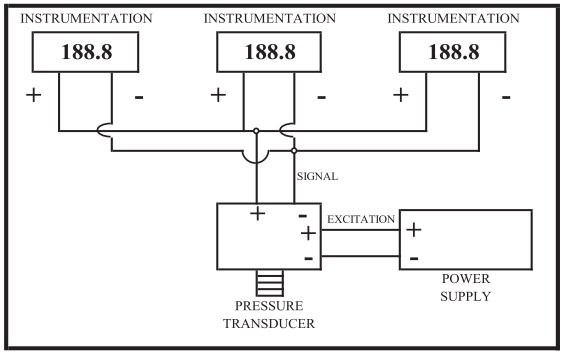
4Wire Configuration Millivolt Output Transducer



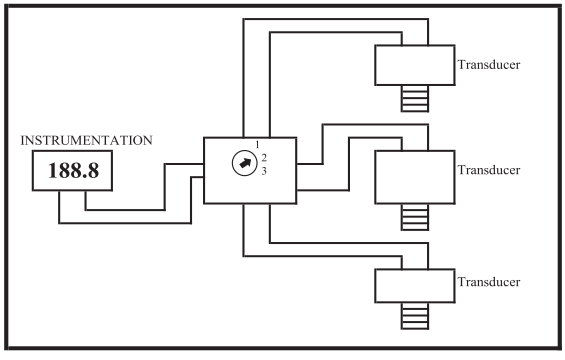
2Wire Configuration for Current output Transducer



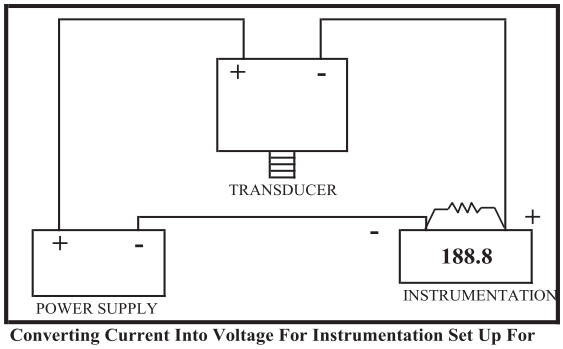
Multi-instrument 4-20mA Current Loop (Panel Meters, Chart Recorder, Computers, etc)



Multiple Instruments Wired In Parallel to a Voltage Output



Multiple Transducer Wired to One Meter and One Switch
(Transducer With Built-in Zero & Span Adjustments, Same outputs & Same Pressure Range)



Converting Current Into Voltage For Instrumentation Set Up For Voltage