

Application Work Sheet (Temperature)

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
 10 K, 25 A Flange 10 K, 40 A Flange 10 K, 50 A 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

T300 Series Local Display Temperature Transmitter



Feature

- 2Wire 4~20 mA current output signal
- Pt100 or PT 1000 input
- Measuring range from -50 to 500 °C
- Permanent Water proof.
- Excellent accuracy and long term stability

Applications

These are recommended in application requiring amplification of RTD signals to carry to a long distance or guard against heavy field electrical noise.

- Chemical, petrochemical, food and drug process control
- Hydraulic and pneumatic system Temp. monitoring
- Machine tools and automatic machinery
- LPG and LNG transmission control and storage tank monitoring
- Engine monitoring and control
- HVAC

Input

Sensor Elements	Pt 100 Ω, Pt 500 Ω, Pt 1000 Ω Thermocouple (B, R, S, K, E, J & T)
Measuring Range	-50 ~ 250 °C ... 1000 °C

Output

Output signal	4 ~ 20 mA (2Wire)
Local display	Customized LCD With Backlight
Electrical cable entry	G(PF) 1/2" Female

Electrical Specifications

Power supply	12 ~ 36 V DC (It is not free voltage)
Load resistance max@24 V	500 Ω at 24 V
Influence of excitation	0.01 % F.S.
Power ripple	≤ 500 mV P-P
Reverse Polarity	Protected
Shock resistance	No change in performance after 10 g for 11 ms
Vibration	0.1 g (1 m sec) maximum
Response time(10~90 %)	± 2 ms
Adjustment range	± 20 % F.S. zero and span

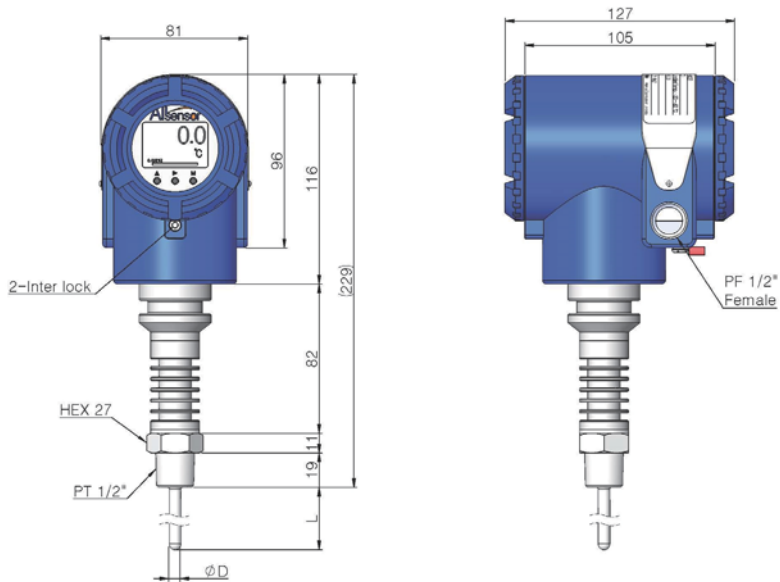
Performance Specifications

Accuracy	≤ ± 0.15 °C
Non-linearity	± 0.02 % F.S.
Repeatability	± 0.1 % F.S.
Long term stability	≤ 0.05 % F.S. peryear
Operating temperature range	-20 ~ 80 °C
Compensated temperature range	0 ~ 60 °C
Ambient humidity limits	5 to 100 % R, H
Thermal sensitivity shift	≤ ± 0.1 % F.S. inreference to 35 °C typical

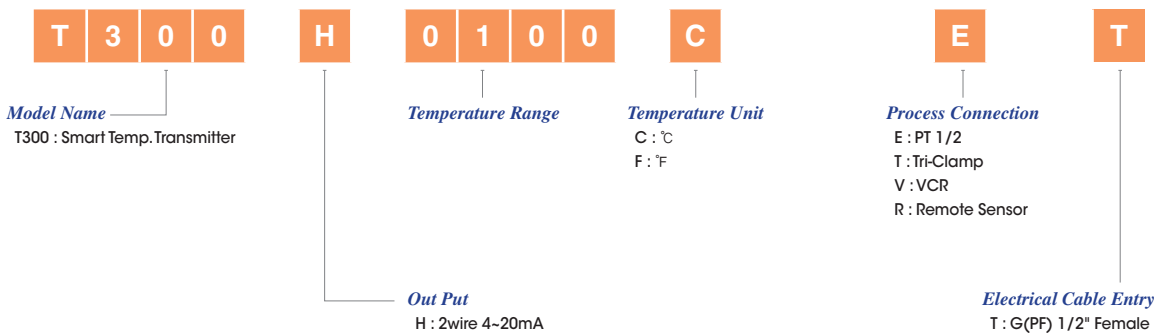
Physical Specifications

Process connection	Rc(PT)1/2" Male thread(Standard) Flange, Sanitary connection & other connections available on request
Electrical cable entry	G(PF) 1/2" Female
Process media	Gases and liquid compatible with ANSI 316
Materials wetted by process	Probe : ANSI 316 Housing : Aluminum die-casting
Enclosure rating	IP67
Explosion protection	Ex d II C T6 (방호장치 의무안전인증 고시 / 고용 노동부 고시 제 2013-54호)
Influence of mounting position	No critical
Option	Protection thermo-well, Sanitary Tri-Clamp

Dimension(mm)

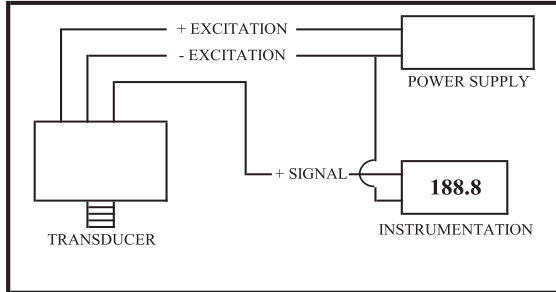


Ordering Information

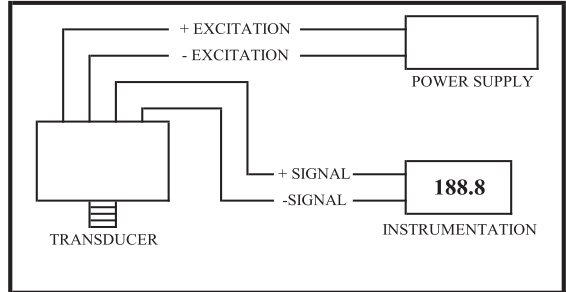


Pressure Transducer & Transmitter

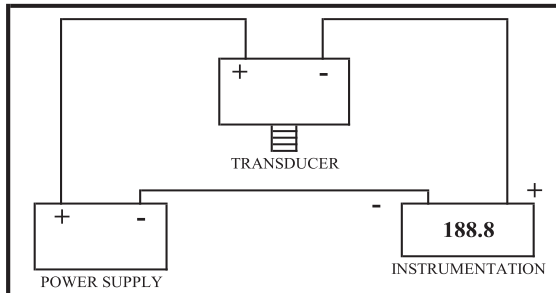
Installation and Wiring



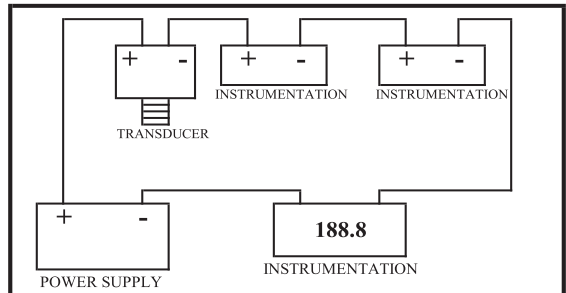
3Wire Configuration for voltage output Transducer
 ("-"Excitation and "-"Signal Are Common)



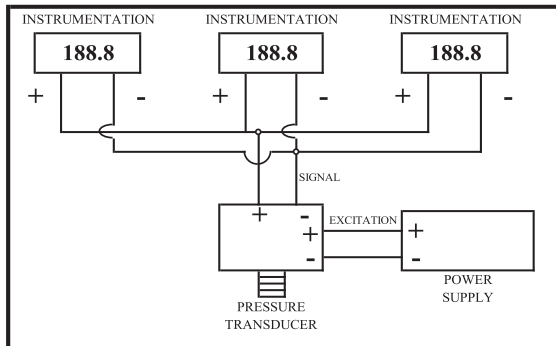
4Wire Configuration Millivolt Output Transducer



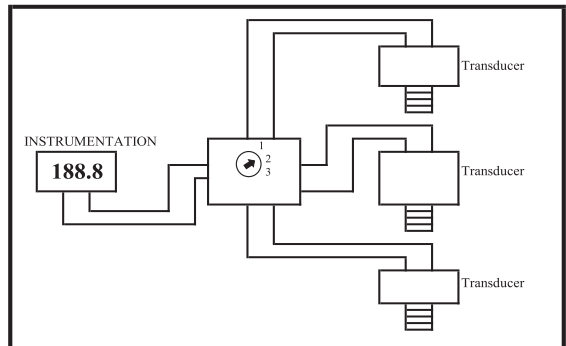
2Wire Configuration for Current output Transducer



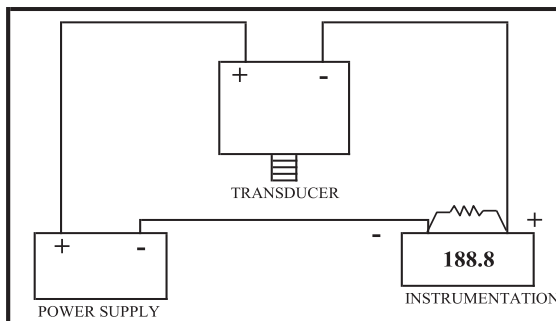
Multi-instrument 4-20mA Current Loop
 (Panel Meters, Chart Recorder, Computers, etc)



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