# Application Work Sheet (Temperature)

☐ Quotation ☐ Purchase Order

For better customer satisfaction and to minimize risks, we request you to fill out this foam 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 | ☐ ℃ ☐ ℉ |
| 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 |

# T203 Series General Purpose Temperature Transmitter.

## Feature

- 2Wire 4 ~ 20 mA current output signal
- Pt 100 or PT 1000 input
- Measuring range from -50 to 500 ℃
- Excellent accuracy and long term stabillity

## Applications

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

The transmitter converts RTD input to an analog signal for direct interface with Indicators, recorders, controllers, PLC and DCS systems can be used for a wide range of applications in process control, utomatic machinery and hydraulic or pneumatic system.

| Input | | |
|---|---|---|
| Sensor Elements | Pt 100 Ω | |
| | Pt 500 Ω | |
| | Pt 1000 Ω | |
| Measuring Range | –50 –250 ℃ ··· 500 ℃ | |

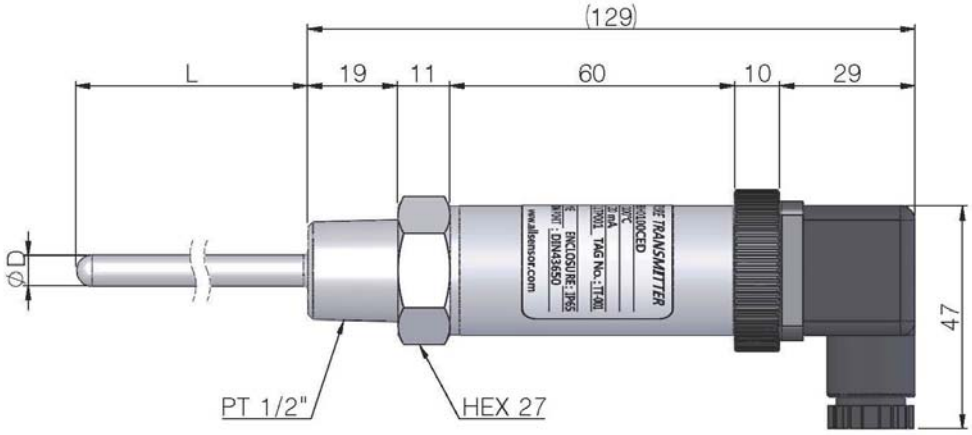
| Output | | |
|---|---|---|
| | Current output | |
| Electrical connection type | 2–wire technique | |
| Full scale output signal | 20 mA | ± 0.05 % |
| Zero measured output | 4 mA | ± 0.03 % |
| | Other signals available on request | |

| Electrical Specifications | |
|---|---|
| Power supply | 12 ~ 36 V DC (It is not free voltage) |
| Load resistance | 500 Ω at 24 V |
| Influence of excitation | 0.01 % F.S. |
| Reverse Polarity | Protected |
| Shock resistance | No change in performance after 10 g for 11 ms |
| Vibration | 5 g (10 ··· 2000 Hz) |
| Response time(10~90 %) | ± 2 milliseconds |
| Adjustment range | ± 20 % F.S. zero and span |

| Perfirmance Specifications | |
|---|---|
| Accuracy | ≤ ± 0.25 % F.S. |
| Non–linearity | Better than ± 0.10 % F.S. |
| Repeatability | Better than ± 0.05 % F.S. |
| Long term stability | Better than 0.05 % F.S. per year |
| Cutoff frequency(–3 dB) | ≤ 2 kHz |
| Ambient temperature limits | –20 ~ 80 ℃ |
| Ambient humidity limits | 5 to 90 % R.H |

| Physical Specifications | |
|---|---|
| Process connection | Rc1/2" Male thread(Standard) |
| | Flange, Clamp Joint & Other connections available on request |
| Process media | Gases and liquid compatible with stainless steel 316 |
| Materials wetted by process | Stainless steel 316L and other available on request |
| Materials of terminal head | Aluminum die-casting, or stainless steel HEAD |
| Enclosure rating | IP 65 |
| Explosion protection | None |
| Influence of mounting position | No critical |
| option | Protection well |

## Dimension(mm)




| WIRING | |
|---|---|
| A, Red | Power + |
| B, Black | Return – |

## Ordering Information

| T | 2 | 0 | 3 | H | 0 | 1 | 0 | 0 | C | E | D |
|---|---|---|---|---|---|---|---|---|---|---|---|

***Model Name***
T200 : Explosion Proof
T203 : DIN Connector
T204 : Submersible

***Out Put***
H : 2wire 4~20mA

***Temperature Range***

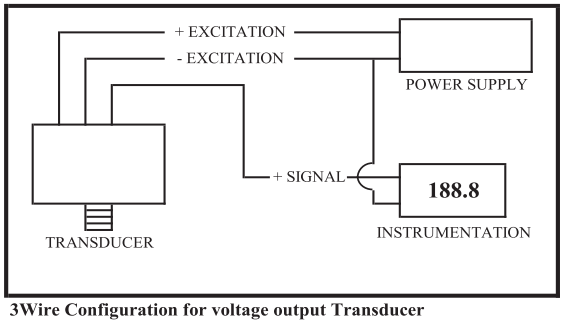
***Temperature Unit***
C : ℃
F : ℉

***Process Connection***
E : PT 1/2
T : Tri-Clamp
V : VCR

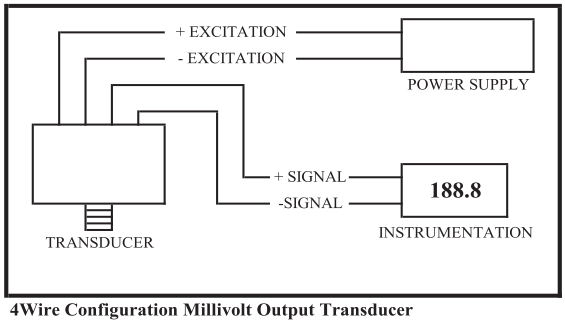
***Electric Connection***
D : DIN 43650
C : Cable
M : M12 Connector

# Pressure Transducer & Transmitter

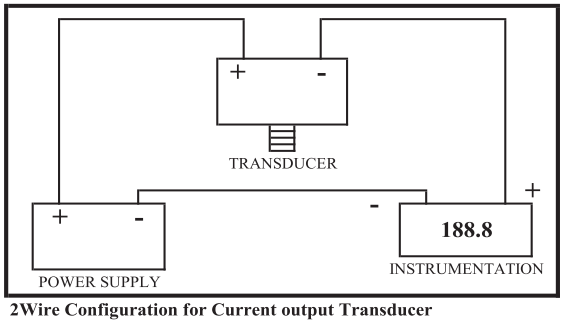
## Installation and Wiring



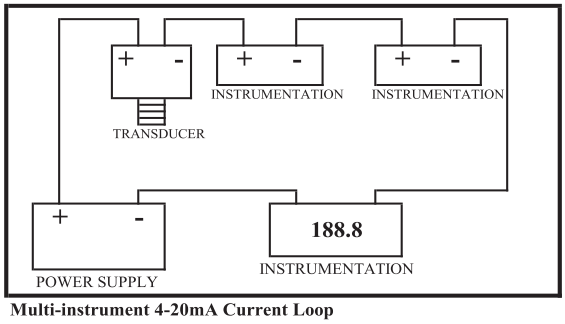

**3Wire Configuration for voltage output Transducer ("-"Excitation and "-"Signal Are Common)**



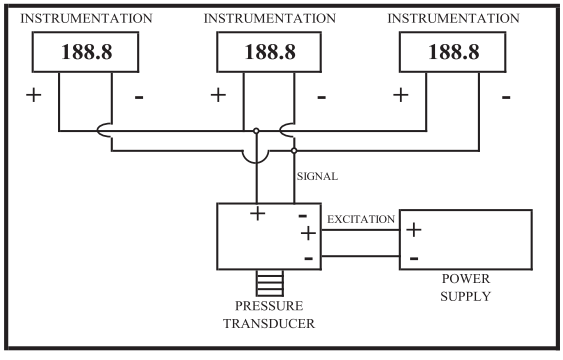

**4Wire Configuration Millivolt Output Transducer**



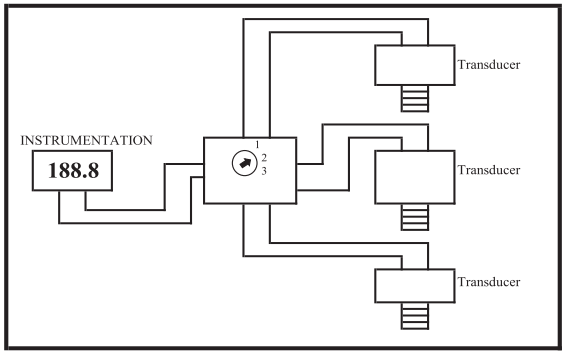

**2Wire Configuration for Current output Transducer**



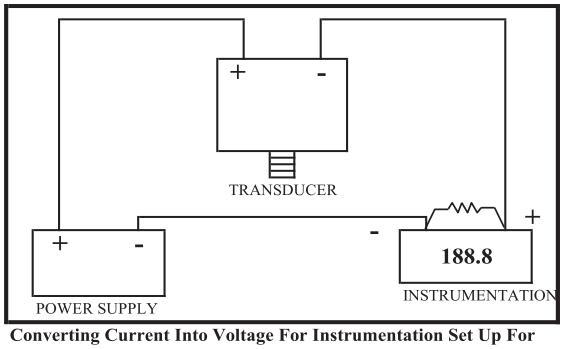

**Multi-instrument 4-20mA Current Loop (Panel Meters, Chart Recorder, Computers, etc)**




**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**