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

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℃
- Permanent Water proof.
- 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.

- Chemical, petrochemical, food and drug process control
- Hydrautic and pneumatic system Temp. monitoring
- Machine tools and automatic machinery
- LPG and LNG transmission control and strage 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 ℃ ··· 1000 ℃

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

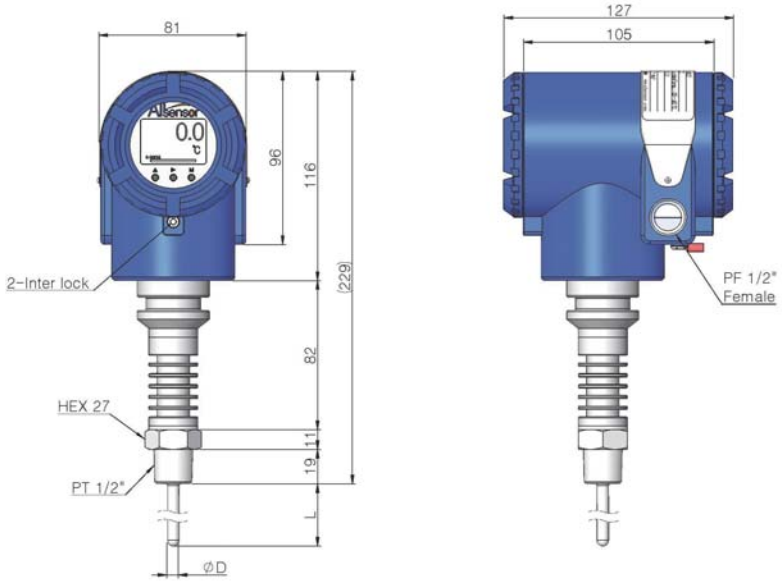
Electrical Specifications	
Power supply	12 ~ 36 V DC (It is not free voltage)
Load resistance max@24 V	500 Ω at 24 V
Influence of excitation	0.01 % F.S.
Power ripple	≤ 500 mV P–P
Reverse Polarity	Protected
Shock resistance	No change in performance after 10 g for 11 ms
Vibration	0.1 g (1 m sec) maximum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

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

Physical Specifications

Process connection	PT1/2" 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
Influence of mounting position	No critical
Option	Protection thermo-well, Sanitary Tri-Clamp

Dimension(mm)



Ordering Information

T	3	0	0	H	0	1	0	0	C	E	T

Model Name
T300 : Smart Temp.Transmitter

Out Put
H : 2wire 4~20mA

Temperature Range

Temperature Unit
C : ℃
F : ℉

Process Connection
E : PT 1/2
T : Tri-Clamp
V : VCR
R : Remote Sensor

Electrical Cable Entry
T : G(PF) 1/2" Female