Temperature Transmitter with Digital Switch Model : T800S (General head) T800 (Explosion Proof head)



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Advantages

- Micro-processor based digital temperature switch/transmitter for industrial applications
- Adjustable switch points allow the user to obtain various temperature settings for each of the 2 switches and span
- Measuring ranges from -50 to 500 °C
- RTD input
- · Excellent accuracy and long term stability
- 4 digit LED local display
- 2switching points with analog output
- Measuring range turn down maximum 10 : 1

Applications

The T800, T800S micro-processor based digital temperature switch with analog output signal can be used for a wide range of applications in process control, automatic machinery and hydraulic or pneumatic system design.

- Chemical, petrochemical, food and drug process controls
- Hydraulic and pneumatic equipments
- Machine tools and automatic machinery
- LPG and LNG transmission control and storage tank monitoring
- Engine monitoring and control



Ex d IIC T6 (IP65)

Descriptions

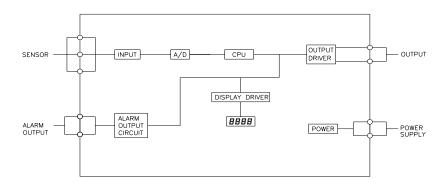
T800 Series micro-processor based digital temperature switch addresses all the fundamental issues of industrial temperature sensing that require highly accurate process control and monitoring. The T800S/P800, with its built-in RTD, a 4-digit digital display, 2 switching points, 4~20mA analog output signal and a front function keys, offer the user all the advantages of a modern electronic temperature measurement. External adjustments allow the user to set the measuring ranges, switch points, dead band and zero or span calibration, etc. It has a water resistant, aluminum die-cast housing for complete protection from harsh environments and its 4~20mA current output is ideal for remote monitoring of both primary and secondary process variables. It has been designed as an advanced device for measuring temperature in industrial applications.



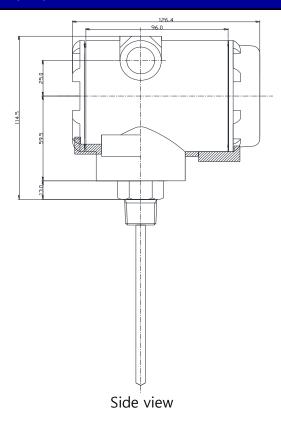
Specification

Input		
Technology	RTD (PT100 ohm, IEC, DIN, JIS-C-1604-1981)	
Measuring range	-50~500 °C	
Output		
Output signal	4~20mA analog output / Optional 1~5V DC acailable on request	
	2 switching points with 4~20mA analog output	
Local display	LED 4 digit	
Electrical connection type	Terminal Head	
Electrical Specification		
Excitation voltage	24V DC (12~36V DC), 85~260V AC (Optional)	
Load resistance max @ 24V	500 Ω at 24V	
Influence of excitation	0.01% FSO/V	
Power ripple	≤500mV P-P	
Reverse polarity	Protected	
Shock resistance	No change in performance after 10Gs for 11ms	
Vibration	0.1G (1 m/s/s) maximum	
Response time(10~90%)	± 500 mSec.	
Switching current	Maximum 1.2A	
Adjustment range	Zero and span can be fully adjustable using front keys	
Performance Specification		
Accuracy	$\leq \pm 0.2\%$ FSO	
Non-linearity	± 0.2% FSO	
Repeatability	± 0.1% FSO	
Long term stability	Better Than 0.05% FSO per month	
Ambient temperature range	-20 ~ 70 °C	
Ambient humidity limits	5 to 100% R.H	
Storage temperature range	-40 ~ 70 °C	
Physical Specification		
Process connection	PT1/2" male thread (standard)	
	Flange & other connections available on request	
Electrical connection	PT1/2"	
Process media	Gases and liquids compatible with stainless steel 316	
Materials wetted by process	Probe : stainless steel 316	
	Housing : Aluminum Die-casting terminal head	
Local display range	4 digit	
Enclosure rating	IP65	
Explosion protection	Ex d IIC T6 (Only T800)	
Influence of mounting position	Not critical	
Options	Protection well	

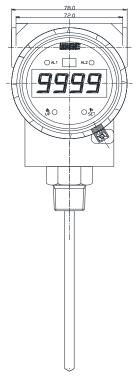
System connection for digital switch



Dimension (mm)

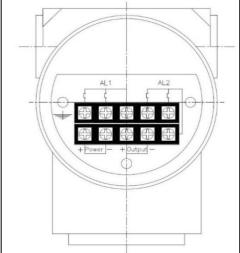


Electrical connection



Front view

T800/P800S Terminal Block



Ordering Information		
Temperature Transmitter with Digital Switch 1. Base model		
T800 T800S	General Head Explosion Proof Type Head	
2. Input signal	RTD (PT 100 Ω) Other Input signal available on request	
3. Process connection		
	Male thread mounted Flange mounted	
4. Process connection type	PT thread as standard	
	Flange per JIS Flange per DIN Flange per ANSI	
X	Other process connections available on request	
5. Process connection size	1/2"	
	1" 2"	
	Z Specify the flange unit clearly	
6. Thermo-well		
	With protection thermo-well Without protection thermo-well	
7. Measuring range		
01	-50 ~ 0 °C -50 ~ 50 °C	
	-30 ~ 50 °C	
04	-50 ~ 150 °C	
05	0 ~ 50 °C	
06	0 ~ 100 °C	
07	0 ~ 150 ℃ 0 ~ 200 ℃	
09	0~300 °C	
ĬŎ	0~400°C	
11	0 ~ 500 °C	
XX	Other calibration ranges available on request	
8. Unit	Calibration in Calaire apple %	
C F	Calibration in Celsius scale °C Calibration in Fahrenheit scale °F	
	t signal / Electrical connection type	
S	2 switching points / only available local display	
Č	4~20mA Current output signal	
D	2 switching points with analog output signal / only available local display	
X	Other signal available on request	
10.	Option	
A	AC 220V, 4 wire system	
	DC 12~36V, 4 wire system	
	2 inch pipe mounting bracket None	
T800S P 1 T 1 N 06 C S N	Sample ordering code	

Specifications subject to change without notice