

- Protection Classification :IP67
- Visual indication makes the control of this sensor easier
- High accuracy and stability.
- It is lear to understand the status of output and current unit through distinctive LEDs.
- Certification:CE、RoHS





Applications

Temperature sensor is used very extensively in a variety of field in industrial automation such as boiler system, cooling system, air conditionersystem, temperature control system of warehouse, and etc.

Operating principle

ema's temperature sensor detects the operating temperature by RTD probe and then transmit the data to examining circuit. After processing, the current operating temperature is displayed through LED and transfer automatically the value set by the user to the digital signal (NPN, PNP) or analog signal (0-10V, 4-20mA).

Socket						
Type	Socket Part No.					
 I  L	C	02	L	5	C	12
	C: Cable	Length 02: 2m 05: 5m 10: 10m	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12

Accessories

US0001	US0002	US0003	US0007
M18x1.5-M12x1	M18x1.5-G1/4	M18x1.5-G1/2	M18x1.5-Ø24mm

Technical data

Operating voltage [V]	18...36VDC							
Load current[mA]	300							
Voltage drop [V]	<2							
Current consumption [mA]	<60							
Digital output	PNP/NPN Programmable							
Analog output	4...20 mA/0...10V Programmable							
Analog output 4-20mA load [Ohm]	Max. 500							
Analog output 4-20mA load [Ohm]	Min. 1000							
Accuracy								
Switching output [°C/°F]	±0.2/±0.36							
Analog output [°C/°F]	±(0.2/0.36+0.4% of the set measuring span)							
Display [°C/°F]	±(0.2/0.36+1/2 digit)							
Resolution								
Switching output [°C/°F]	0.5/1							
Analog output [°C/°F]	0.125/0.23							
Display [°C/°F]	0.5/0.5							
Temperature drift [% of value of measuring range/10K]	±0.1							
Measuring / display cycle [ms]	200							
Power-on delay time [s]	1.5							
Housing material	Stainless steel Aluminum(S304);PBT+30%GF							
Operating temperature [°C]	-25...+70							
Storage temperature [°C]	-40...+85							
Protection	IP 67							
Insulation resistance [MΩ]	> 100 (500 V DC)							
Shock resistance [g]	50							
Vibration resistance [g]	20							
EMC								
IEC 1000/4/2 ESD:	4/8KV							
IEC 1000/4/3 HF radiated:	10V/m							
IEC 1000/4/4 Burst:	2KV							
IEC 1000/4/6 HF conducted:	10V							
Part No.	Display	Thread	Sensing range	Electric design	Input voltage	Output1	Output2	Programmable
TA1001	7 LED	M18 X 1.5	- 40°C~+150°C	4-wire	18~36 VDC	PNP NO/NC, NPN NO/NC	0~10V, 4~20mA	Yes