

- 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.					
 C 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