MTS1300 Intelligent Digital Temperature Switch

MAIN FEATURES

- The current temperature value is displayed in 4 digits.
- Temperature preset switching point and delay switching output
- The shell is equipped with node action led for easy observation
- Key adjustment and field setting of various parameters
- 1-2 channels of switching value output, with load capacity of 1.2A, the switching value can be arbitrarily set between zero point and full degree
- The switch can be PNP type, NPN type and relay type, and the analog output (4-20mA) can be selected

OVERVIEW

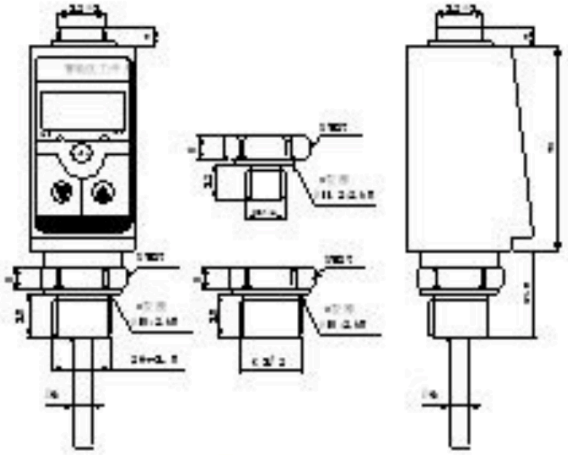
MTS1300 is an intelligent digital temperature measurement and control product that integrates temperature measurement, display, output and control. The product is of full electronic structure. The front end adopts the temperature sensor or ceramic piezoresistive sensor with isolation membrane filling oil pressure. The output signal is amplified and processed by the amplifier with high precision and low temperature drift, sent to the high precision A / D converter, converted into the digital signal that can be processed by the microprocessor. The signal processed by operation controls two-way switches to measure and control the temperature of the control system. The product is flexible in use, simple in operation, easy in debugging, safe and reliable. It is widely used in hydropower, tap water, petroleum, chemical, mechanical, hydraulic and other industries to measure, display and control the temperature of fluid medium.

SPECIFICATION

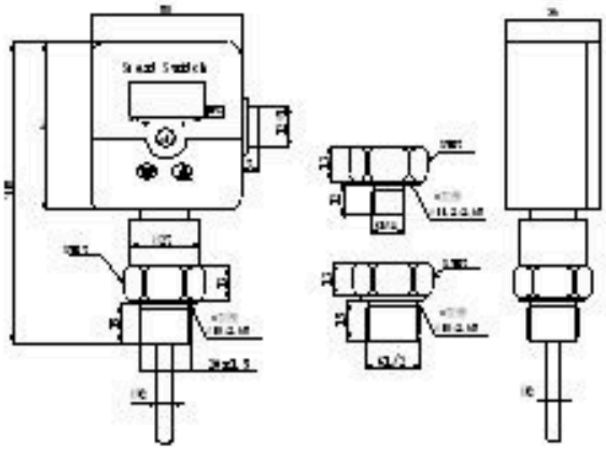
Items	Parameter
Control range	0～100°C
Accuracy	≤±0.25%FS
Display accuracy	±0.1%FS
Stability	≤0.2% /year
Power range	24V±20 %
Load capacity	<24V1.2A
Display range	-1999~99 99
Maximum power	< 3W
Switch life	>1million times
Protect grade	IP65
Ambient temperature	-30°C~70 °C
Medium temperature	-30°C～150°C
Relative humidity	0~80%
Display mode	4-digit nixie tube
Display range	-1999~9999
Electric connection	4PIN/5PIN/6PIN

E-mail: info@cdsentec.com www.cdsentec.com

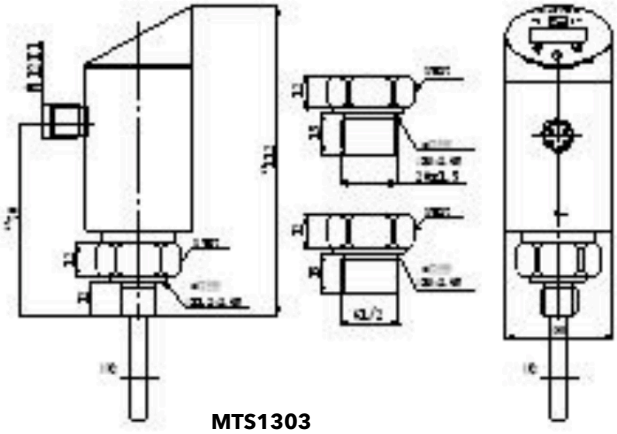
TYPICAL DIMENSION



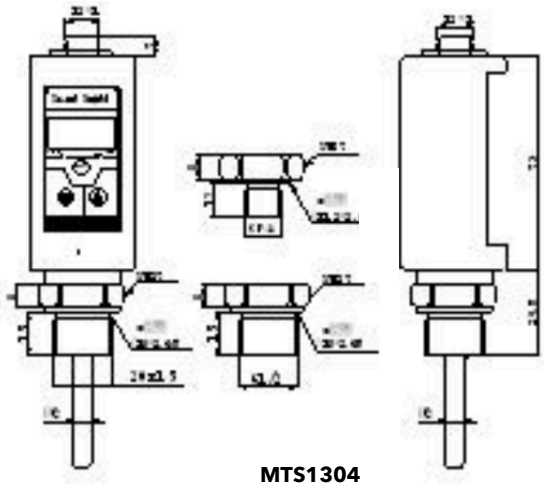
MTS1301



MTS1302



MTS1303



MTS1304

ELECTRIC CONNECTION

M12-4P-1	M12-4P-2	M12-5P-1	M12-5P-2
			
1.VCC(brown)	1.VCC (brown)	1.VCC(brown)	1.VCC(brown)
2.AL2 (white)	2.4-20mA (white)	2.AL2 (white)	2. Normally open (white)
3.GND (blue)	3.GND (blue)	3.GND (blue)	3.GND (blue)
4.AL1 (black)	4.AL1 (black)	4.AL1 (black)	4.Normally closed (black)
		5.4-20mA(gray)	5. Public (gray)

ORDER CODE

Code:	A	–	B	–	C	–	D	–	E	–	F	–	G
MTS	A	–	G	–	0-50bar	–	S	–	L	–	G 1/2	–	R

Model Type	Code A
1301	A
1302	B
1303	C
1304	D
Electric connection	**Code B**
4PIN	A
5PIN	B
6PIN	C
Temperature Range	**Code C**
0～100°C	D
More customized	C
Accuracy	**Code D**
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
Interface material	**Code E**
316L	L
Other customized	C

Process connection	Code F
M22*1.5	M22
G1/2	G1/2
M20*1.5	M20
M18*1.5	M18
G3/8	G3/8
M16*1.5	M16
M14*1.5	M14
G1/4	G1/4
M12*1	M12
M10*1	M10
G1/8	G1/8
1/2NPT	1/2NPT
1/2PT	1/2PT
3/8PT	3/8PT
3/8NPT	3/8NPT
1/4NPT	1/4NPT
1/4PT	1/4PT
1/8NPT	1/8NPT
Setting range	**Code G**
Relay output	R
Relay output +4mA~20mA	R4
PNP	P
NPN	N