



TS-NTC

Liquid Temperature Sensor with NTC

Measurement features		
Range	-20 to +150	°C
Tolerance at 25°C	±0.3	°C
Response time 0-90% into water @ 95°C	See \$Housing options	
Sensitive element standard	2k2 version	NTC 2252Ω @25°C β=3892K
	3k version	NTC 3000Ω @25°C β=3977K
	5k version	NTC 5000Ω @25°C β=3977K
	10k version	NTC 10kΩ @25°C β=3695K
Mechanical features		
Material	Stainless steel	
Recommended tightening torque	See \$Housing options	
Dimensions		
Weight		
Environment		
Protection	IP66	
Max service pressure	200	Bar
Burst pressure	600	Bar
Vibration test	20Gpp 5'	
Shock	500	G
Operating temperature	-20 to +150	°C
Storage temperature	-50 to +150	°C

Cable		
3x26 AWG FEP tinned copper braided cable 250V 200°C		
Length: 1000±100mm		Tubing: None
Connector: on request		
Color	Function	Pin
Red	Not connected	-
White	NTC	-
Black	NTC	-
Braid	Not connected	

Calibration table				
Temperature (°C)	NTC 2k2 version (Ω)	NTC 3k version (Ω)	NTC 5k version (Ω)	NTC 10k version (Ω)
-20	22984	32212	48180	78910
0	7447	10183	16280	29490
20	2814	3767	6244	12270
25	2252	3000	5000	10000
40	1204	1583	2665	5594
60	571	738	1245	2760
80	294	375	628	1457
100	163	205	339	817
120	96	119	193	482
140	59	73	122	298
150	48	58	97	238

Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Ordering ref:

TS-NTC - *Resistance* - *Housing version*

3k NTC 3000Ω @25°C

M6-10 : M6 thread, 10mm probe

M6-14 : M6 thread, 14mm probe

ex: TS-NTC-3K-M6-14