



TS-150-1/8-NPT

Liquid Temperature Sensor

Measurement features		
Range	-50 to +150	°C
Accuracy	±2	°C
Sensitive Element Standard	Silicon sensor	
Sensitivity	+22.5	mV/°C
Response time 0-90% (into water @ 95°C)	16	s
Electrical features		
Supply Voltage	5.5 to 16	V
Supply Current	< 1	mA
Output Voltage	0...5	V
Output Impedance	< 100	Ω
Load Resistance	>5000	Ω
Mechanical features		
Material	Stainless steel	
Recommended tightening torque	20	N.m
Weight (without cable)	15	g
Dimension	See drawing	
Environment		
Protection	IP66	
Maximum service pressure	200	bar
Burst pressure	600	bar
Vibration test	20 Gpp 5'	
Shock	500	G
Operating Temp	-50 to +150	°C
Storage Temp	-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	Supply	-
Black	0V	-
White	Signal	-
Braid	Not connected	

Calibration table	
Temperature	Output (+22.5mV/°C)
°C	V
-50	0.250
-40	0.475
-20	0.925
0	1.375
20	1.825
40	2.275
60	2.725
80	3.175
100	3.625
120	4.075
140	4.525
150	4.750

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.

Mechanical Drawing

