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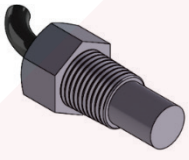
ZTS2

Liquid temperature sensor with current output

These 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.

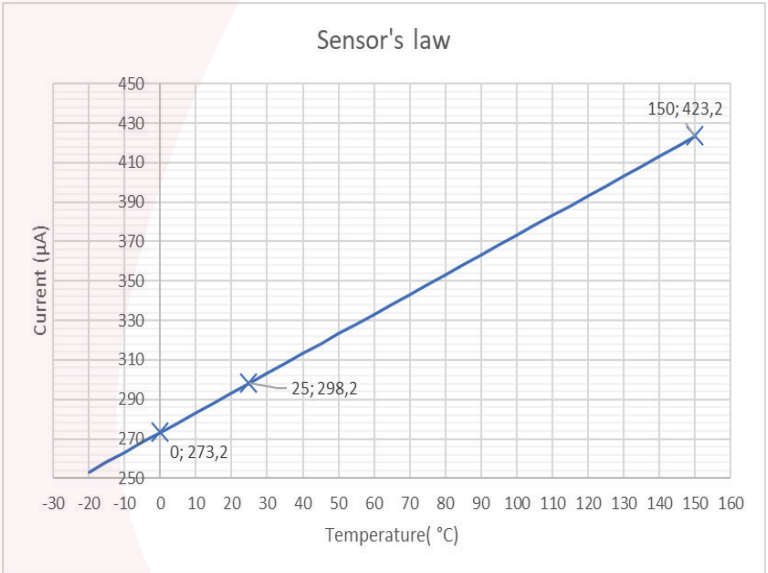
Measurement features		
Range	-20 to +150	°C
Accuracy	±2.5	°C
Response time 0-90% into water @ 95°C	See Housing options	
Operating voltage (without shunt)	4 to 30	V
Sensitivity	1	µA/°C
Mechanical features		
Material	Stainless steel	
Recommended tightening torque	See Housing options	
Dimensions		
Weight		
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



1/8NPT-20 Housing

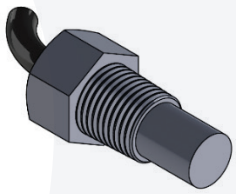
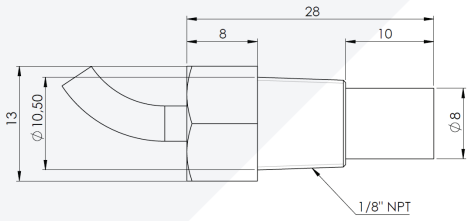
Date		Operator	
Customer			
Order			
Ref	ZTS2		

Cable		
3x26 AWG FEP tinned copper braided cable 250V 200°C Length: 1000±100mm Tubing: None Connector: on request		
Color	**Function**	**Pin**
Red	Supply +	2 Skt
Black	Supply -	1 Pin
White	Not connected	n/c
Braid	Not connected	

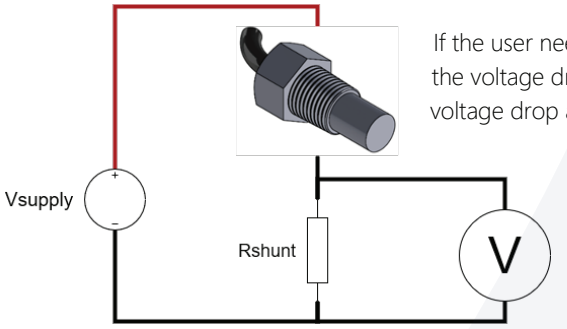


$$T(°C) = Sensitivity\ (°C/\mu A).I(\mu A) - 273.2$$

Housing options

Housing ordering code	Features	View	Drawing
1-8-NPT-20	Weight (without cable): 15g Tightening torque: 20N.m Response time: 16s		

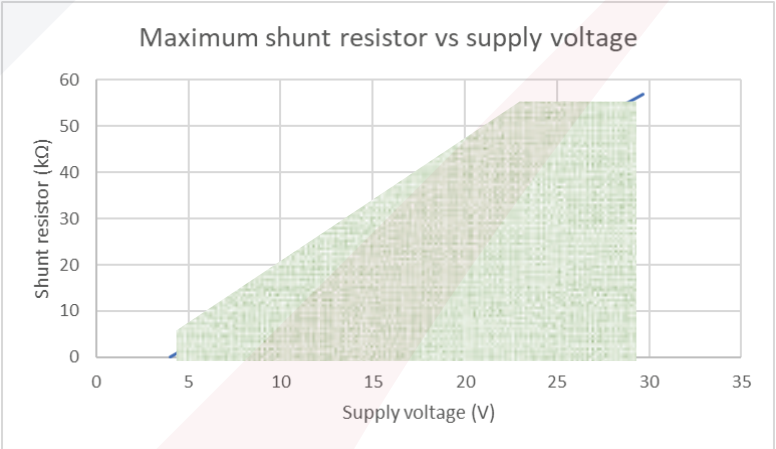
Wiring



If the user needs to use a shunt resistor to provide a current / voltage conversion, he should take care of the voltage drop across the shunt resistor. Specified operating voltage (4V to 30V) does not consider voltage drop across the shunt resistor.

To ensure that the voltage across the sensor remains within the operating voltage, user should use a shunt resistor lower than the value below, which depends on supply voltage applied:

$$R_{shunt\ max}\ (\Omega) = \frac{V_{supply}(V) - 4}{450.10^{-6}}$$



Ordering information

Ordering ref:

ZTS2 - Temperature

ZTS2 - UT - bare end lead
Z2S2 -SS - System2 Sure Seal Connector