

Model: STT-28

Submersible Temperature Transmitter



Description:

The STT-28 Submersible temperature transmitter has been designed to be permanently submersed in liquids and suspended by its cable making installation very simple. The housing is available in either stainless steel or marine bronze to ensure complete compatibility with the media.

The temperature measuring element is an NTC thermistor, especially selected for its accuracy and stability which we further correct in electronics to achieve a high level of performance. Two versions available with the standard submersible version for applications where temperature response is not key and trends of accurate temperature measurement over time are more important. Alternatively we have a thin walled 10mm probe version for applications requiring very quick response time to temperature change.

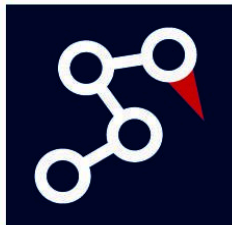
Paired with accurate amplifier internal electronics we provide SDi-12 communications and a number of standard and bespoke commands to retrieve the data you require from the STT-28.. The device can also be rescaled using the USB-SDI12-PRO to simply connect the to the device, interface to the PC/Laptop USB port and use the free software supplied. The USB-SDI12-PRO provides the relevant power to the device using the 5V supply from the connected device.

Product Highlights:

- Fully submersible IP68
- Stainless steel housing
- Marine bronze for seawater applications
- Stable SDi-12, low powered electronics
- Latest digital technology to ensure accurate, low drift performance

Applications include, but not limited to:

- Water tank temperature measurement
- Legionnaires prevention systems
- Tsunami monitoring
- Harbour seawater monitoring
- Estuary temperature analysis
- Environmental monitoring systems
- Marine biology studies



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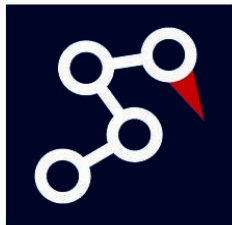
Specification:

Submersible Temperature Transmitter, Digital - STT-28	
Output Versions	SDi-12, V1.4
Supply voltage	6-36V dc
Media temperature	-10 °C to +60 °C, non-freezing
Long term stability:	$\leq \pm 0.10$ % FS
Temperature sensor accuracy	$\leq \pm 0.50$ % FS
Temperature resolution	$\leq \pm 0.01$ °C
Supply reverse polarity protection	No damage but also no function
Lightning Protection	Integral GDS (gas discharge tube) for lightning protection
Electromagnetic compatibility	CE Compliant
Media wetted parts	316 Stainless Steel, EPDM, PUR (TPE-U & FEP cable options)
Permissible media	All fluids compatible with media wetted parts
Electrical connection	PUR submersible cable, terminated in tails. Internal vent tube
Housing type:	Code A: Standard 25mm diameter body, flat end Code B: 23mm diameter body with 6x10mm probe tip
Current consumption	<250 μ A when idle, <4mA when active
Weight (g)	Transmitter: <250g, Cable: 48g per mtr
Environmental Protection	IP68, Fully submersible up to 100m depth



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Standard Body	Probe Tip



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Part Numbering									
STT-28 Submersible Temperature Transmitter wit STT-28 - X X - X X X - X - X X									
Housing Material									
316 Stainless Steel		S							
CA104 Marine Bronze		M							
Cable Material									
PUR		P							
TPE-U		T							
FEP		F							
Cable Length (in 1 metre increments)									
5m			0	0	5				
10m			0	1	0				
Custom (enter required cable length)			X	X	X				
Probe Type									
Standard 25mm diameter body, flat end							A		
23mm diameter body with 6x10mm probe tip							B		
Special Options									
None								0	0

Feel free to contact us if anything is unclear or not mentioned on the datasheet, we can custom build sensors to suit the application and we would love to hear from you.