

# Sanitary Temperature Transmitter

## RT2003 RTD



Output: 4 ~ 20mADC



Process connection: Tri clamp DN15~DN100



Working Temperature: (-)10° ~ 150°C



Sensor Material: SS316L/ Titanium alloy

**Product  
Datasheet**

# ROCKSENSOR AT A GLANCE (ABOUT US)

Rocksensor is one of the global leaders specializing in process Instrumentation, Research and Development and Designing of Industrial Automation Equipment. We provide highly precise pressure sensors and transmitters, flow metres, level transmitters & temperature transmitters with a prime focus to help our clients efficiently, safely and economically run complex industrial processes.

Rocksensor headquartered in Germany (originated in Switzerland), has its footprint in various geographical regions such as the US, Russia, South Korea, Italy, Germany, Singapore, Malaysia, China, Taiwan, Australia, UAE, Brazil, and India. Our clients come from some of the major industries such as Oil and Gas, Petrochemicals, Pharmaceuticals, FMCG, Automobiles, Water, Cement, Metal & Mining and mainly from the Power Industry like Nuclear, Thermal, Hydro and Solar.

Rocksensor deals in a wide range of highly accurate industrial automation instruments ensuring that even the complex industrial processes happen efficiently.

To fulfill the needs of our clients we make sure that our instruments work in even the harsh environmental conditions offering accurate recordings and communication.

We, at Rocksensor, believe in creating bonds that last a lifetime and create a success story for each and every client. Rocksensor aims to achieve a perfect fit in global market landscape and establish our footprints across the globe.



CONTENTS

1. Introduction ..... 4

2. Technical Specifications ..... 4

3. Dimension ..... 5

4. Model Selection Table ..... 6

## 1. Introduction

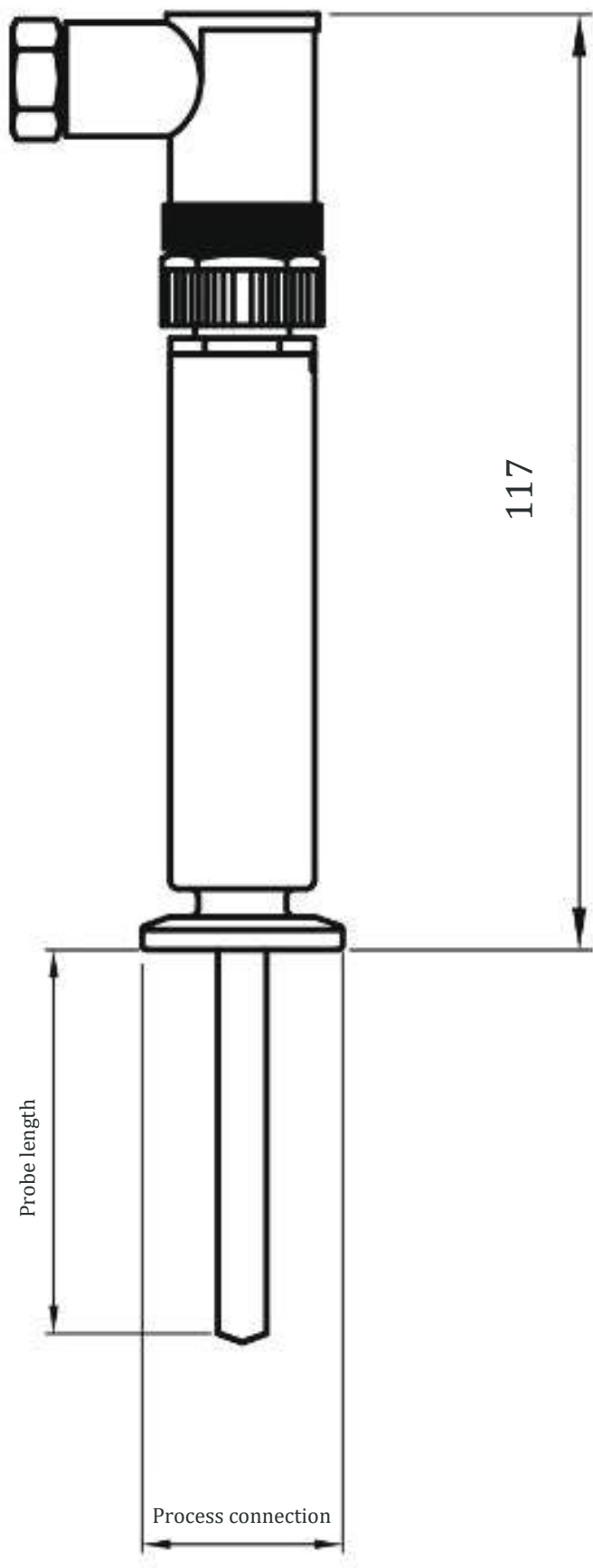
The RT2003 RTD temperature transmitter measures the temperature of liquids, gases or vapors in the food and pharmaceutical industries and converts them into a 4 ~ 20 mADC current signal output.



## 2. Technical Specifications

Characterstics	Parameters
Temperature range	-10°C ~ +150°C
Protection tube	Stainless steel
Output	4 ~ 20mADC
Temperature sensor	Pt100 Class A high precision temperature sensor
Cable connection	M12waterproof right angle cable interface
Ambient temperature	-20° ~ +55°C
Process interface standards	ASME, BPE
	ISO 2852
	DIN 32676
Process interface size	Tri-clamp DN15 ~ DN100
Wet surface material	SS316L
	Titanium alloy
Protective casing	6mm outer diameter
	length 30 ~ 150mm
	Thermal resistor ferrule
	Pt100 temperature sensor
	EN60751
	Class A
Response time	<1s
Power supply	voltage 7.5 - 45V
	maximum load (V power-7.5V) / 0.022A
	Electrical isolation U=2000VAC
	Circuit Limit <22mA
Saturation current	Low 3.8mA
	High 20.5mA

3. Dimension



## 11. Model Selection Table

RT2004 RTD		Temperature Transmitter						
Code		1	2	3	4	5	6	
<b>Basic options</b>		10		60				<b>Additional options</b>
All stainless steel design, output 4 ~ 20mADC		G		1				Test Report
				2				Material Report
<b>Probe length</b>		20		50				<b>Process connection size</b>
50mm	1	0				Tri-clamp DN 15		
100mm	2	1				Tri-clamp DN 25		
150mm	3	2				Tri-clamp DN 40		
30mm	4	3				Tri-clamp DN 50		
		4				Tri-clamp DN 65		
		5				Tri-clamp DN 80		
		6				Tri-clamp DN 100		
<b>Wet surface material</b>		30		40				<b>Process connection standard</b>
SS316L	S	A				ASME BPE		
Titanium alloy	R	B				ISO2852		
		C				DIN32676		

**Example:** RT2003 RTD - G1SA62

RT2003 RTD - Temperature Transmitter

K - Basic Options: All stainless steel design, output 4 ~ 20mADC

1 - Probe Length: 50mm

S - Wet surface material: SS316L

A - Process connection standard: ASME BPE

6 - Process connection size: Tri-clamp DN 100

## 2 - Additional options: Material Report

**Note 1:** The temperature measurement range is set to -10°C ~ 150°C by default, and other measurement range settings are required on the order.

**Note 2:** Additional options can be selected or multiple choices.

## Field Instrumentation Range



### Pressure Measurement

- Smart Differential Pressure Transmitter
- Smart Gauge Pressure Transmitter
- Smart Absolute Pressure Transmitter
- Miniature Pressure Transducer without display
- Sanitary Gauge/ Absolute Pressure Transmitter

- Submersible Pressure Transmitter
- Remote Seal Differential P.T. with capillary
- Remote Seal Differential P.T. Direct Mount
- Remote Seal Gauge/Absolute P.T. with capillary
- Remote Seal Gauge/Absolute P.T. Direct Mount



### Flow Measurement

- Coriolis Mass Flowmeter
- Thermal Gas Mass Flowmeter
- Positive Displacement Flowmeter
- Electromagnetic Flowmeter
- Vortex Flowmeter

- Turbine Flowmeter
- Variable Area Flowmeter
- Clamp On Ultrasonic Flowmeter
- Inline Ultrasonic Flowmeter
- Portable Ultrasonic Flowmeter



### Level Measurement

- RADAR Level Transmitter Horn Antenna
- Compact RADAR Level Transmitter
- RADAR Level Transmitter Sanitary
- RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- RADAR Level Transmitter Lens Antenna

- RADAR Level Transmitter Rod Antenna
- Ultrasonic Level Transmitter
- Microwave Barrier Level Switch
- Admittance Level Switch Series
- Vibrating Rod Level Switch Series
- Tuning Fork Level Switch Series



### Temperature Measurement

- Head Mount Temperature Transmitter
- Temperature Transmitter for Sanitary Applications

- DIN Rail Temperature Transmitter
- Field Mount Temperature Transmitter

## Rocksensor India Pvt. Ltd.

📍 B -36, Sector 67, Noida, Uttar Pradesh - 201301

**For more details, contact us on:**



+91 928 948 8117 | +91 1204121469

✉ : [info@rocksensor.in](mailto:info@rocksensor.in)



[www.rocksensor.in](http://www.rocksensor.in)

## Global Offices

### Head Office

Rocksensor GmbH, Germany

### North America:

Rocksensor Automation LLC, USA

### APAC:

Rocksensor Automation Co.Ltd., Shanghai

**For more updates, follow us on:**

**in:** Rocksensor India

**▶:** Rocksensor

**f:** Rocksensor

**@:** Rocksensor

**🐦:** Rocksensor India