

Wireless Core Temperature Data Logger RTR-61 Temperature Sensor User's Manual

■ Safety Precautions and Instructions

DO NOT POINT THE SENSOR TOWARD HUMANS or USE IN WAYS OTHER THAN THOSE FOR WHICH THIS PRODUCT WAS DESIGNED

DANGER!

Use Safety Cover

Because the Sensor has a sharp tip, there is a risk of accidentally stabbing people and/or objects. Do not use the Sensor for any purpose other than measuring the temperature of objects for which it was designed and store in a safe place when not in use.

DO NOT TOUCH SENSOR IMMEDIATELY AFTER MEASUREMENT

CAUTION: EXTREME HOT & COLD! **DO NOT TOUCH!**

Please be careful when using in extreme hot or cold environments; touching the unit may cause burns or frostbite.

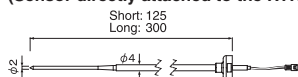
DO NOT TAKE APART, REPAIR OR MODIFY THE SENSOR

DO NOT TAKE APART!

This may cause damage including malfunction.

■ Temperature Sensor (Optional)

All-in-one Type Temperature Sensor (Sensor directly attached to the RTR-61 Main Unit)



[Unit : mm]

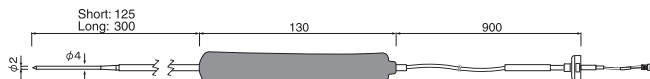
RTR-6110: Short Temperature Sensor

Sensor Length: 125mm

RTR-6130: Long Temperature Sensor

Sensor Length: 300mm

Separate Type Temperature Sensor (Sensor with Handgrip and Cord. Easy to measure temperature, even in steam.)



[Unit : mm]

RTR-6210: Short Temperature Sensor

Sensor Length: 125mm / Cord Length: 900mm

RTR-6230: Long Temperature Sensor

Sensor Length: 300mm / Cord Length: 900mm

- Sensor Materials: Stainless pipe(SUS316)
- Handgrip Materials: Polysulfone Resin (Temperature Durability: About 170°C)
- Cord : Teflon® Resin (FEP) Shielded
- Common Items Included: Sensor Spacer 1 / Rubber Packing 1 / Sensor Replacement Tool 1 / Sensor User's Manual (this document) 1

*Teflon® is a registered trademark of U.S. company Du Pont.

■ Specifications

Measurement Range		- 25°C to 235°C
Temperature Sensor		Thermistor
Measurement Accuracy	Under 10°C	± 1.5°C
	40°C to 10°C	± 1.0°C
	40°C to 85°C	± 0.8°C
	85°C to 110°C	± 0.5°C
	110°C to 130°C	± 0.8°C
	130°C to 150°C	± 1.0°C
	150°C to 180°C	± 1.5°C
	180°C to 200°C	± 2.0°C
	Over 200°C	± 2.5°C
Measurement / Display Resolution		0.1°C

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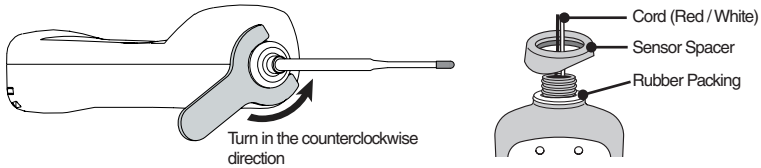
<http://www.tannd.com/>

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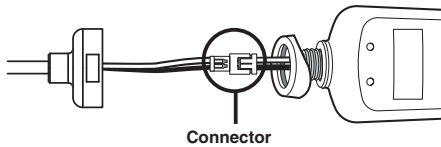
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■ Temperature Sensor Replacement Procedures and Cautions

1. Fit the supplied Sensor Replacement Tool to the bottom of the Sensor. Then turn it in the counterclockwise direction to loosen the Sensor from the Main Unit. Remove the Sensor from the Main Unit slowly.



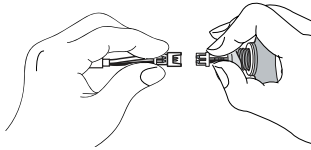
2. Pull out the Connector from the inside of the RTR-61 Main Unit.



⚠ NOTE

- DO NOT forcibly pull the cord. Doing so may break it off.

3. Hold the connector securely to disconnect. DO NOT pull the cord.
4. Change the Sensor Spacer and the Rubber Packing, if necessary. Connect the cord of the replacement sensor to the connector.



⚠ NOTE

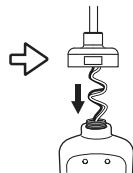
- To avoid poor connections, make sure to the Connector is securely connected.
- Make sure that the cord is properly connected by inserting it until you hear a clicking sound.

5. Insert the cord into the RTR-61 Main Unit as shown in the figure.

How to prevent the cord from breaking due to kink



Straighten the cord. Then twist the cord two and a half times in the counterclockwise direction, and



Insert it into the RTR-61 Main Unit as it is.

6. Turn the bottom of the Sensor slowly in the clockwise direction. At the end, be sure to fasten it tightly using the supplied Replacement Tool.

Caution: DO NOT Cause Sensor Spacer Misalignment!

Align the Sensor Spacer with the shape of the RTR-61 Unit. Make sure that there is NO space between the Sensor Spacer and the RTR-61 Unit.



⚠ NOTE

- Misalignment of the Sensor Spacer and looseness of the Sensor bottom will allow water or foreign objects to enter into the unit.

If water or a foreign object enters into the unit, immediately remove the batteries and stop using it. Continued use may cause fire, electrocution or damage.