

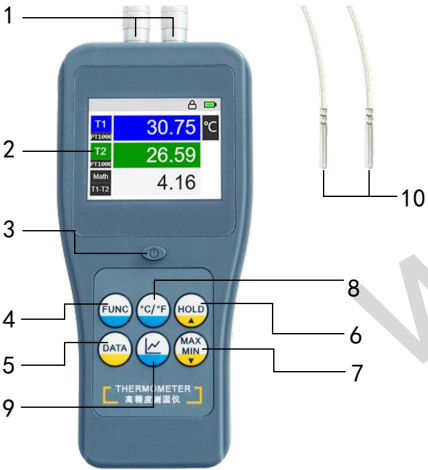
High-Precision Resistance Thermometer RT1562

User's Manual

Version: V1.1
Date: 2024.02

 Qingdao Realtech Instruments Co.,LTD.

Descriptions



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|---------------------|---------------|
| 1 Probe Connector | 6 HOLD Key |
| 2 Color LCD | 7 MAX/MIN Key |
| 3 Power/Backlit Key | 8 °C/°F Key |
| 4 Type/Channel Key | 9 Graph Key |
| 5 DATA Key | 10 Probe |

Specifications

Display	Color LCD
Sensor	PT1000/PT100 Platinum Resistance
Range	-200~850°C (-328~1562°F) (Depend on Probe)
Accuracy	±0.1°C
Resolution	0.01°C/°F
Unit	°C/°F
Sampling Channel	2 Channels
T1-T2 Temperature Difference	✓
Graph Display	Real-time Measurement Graph
Storage	99 Groups (Manual Storage)
Statistical Functions	Maximum, Minimum, Average
Automatic Power Off	10 Minutes (No Operation)
Operating Conditions	0~50°C (32~122°F); 0~90%RH (No Condensation)
Storage Conditions	-10~50°C (14~122°F); 0~95%RH (No Condensation)
Power Supply	4×1.5V AAA(UM-4) Battery
Size	170×80×31mm
Weight	163g (Not Including Batteries)
Standard Accessories	Main Unit×1, PT-01A Probe×2 (PT1000, Range: -50~200°C), Manual×1, Carrying Case×1
Optional Accessories	Probes of Other Type/Size

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Introduction

It is a high-precision RTD thermometer that uses PT1000 /PT100 platinum thermal resistance as a sensor to measure temperature signals. Widely used in industrial production, research and development experiments, food processing, refrigerated storage, precision temperature measurement and other occasions.

Features

- Color LCD with display.
- 2 sampling channels.
- High-precision PT1000/PT100 platinum thermal resistance is used for temperature measurement.
- Temperature unit (°C/°F).
- Accuracy up to 0.1°C.
- 0.01 high resolution.
- With real-time measurement graph display function.
- With T1-T2 temperature difference function.
- With data storage function (99 Groups).
- With maximum, minimum, average function.
- With data hold function.
- With battery indication function.
- With automatic power off function.

Instruction

- **Power On:** press and hold the [Power/Backlit] key.
- **Power Off:** press and hold the [Power/Backlit] key for 3 seconds.
- **Backlit Brightness Adjustment:** short press the [Power/Backlit] key to adjust the backlit brightness. The brightness adjustment sequence is 100%→60% cyclic.

Measurement



- **Enter the Measurement Interface:** after powering on, it will enter the **Measurement Interface** automatically.
- **Resistance Type:** short press the [Func] key to switch between PT1000 type and PT100 type. (Note: Depend on Probe)
- **Unit:** short press the [°C/°F] key to switch between Celsius Degree (°C) and Fahrenheit Degree (°F).
- **Data Hold:** short press the [HOLD] key to hold the displayed value, and the 'HOLD' symbol will appear on the color LCD. And short press again to release the displayed value, and the 'HOLD' symbol will disappear.

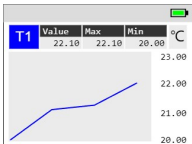
- **Data Storage:** press and hold the [DATA] key to store the displayed value. (Note: If the stored is completed, the color LCD will display "Data is stored".)

Data Viewing

Data			
No	T1	T2	°C
8	21.79	--	
9	34.55	70.75	
10	59.65	91.48	
11	107.11	169.47	

- **Enter the Data Viewing Interface:** in the **Measurement Interface**, short press the [DATA] key to enter the **Data Viewing Interface**.
- **Unit:** short press the [°C/°F] key to switch between Celsius Degree (°C) and Fahrenheit Degree (°F).
- **View the Previous Data:** short press the [HOLD] key to view the previous data.
- **View the Next Data:** short press the [MAX/MIN] key to view the next data.
- **Exit the Data Viewing Interface:** in the **Data Viewing Interface**, short press the [DATA] key to exit the **Data Viewing Interface**.

Graph



- **Enter the Graph Interface:**
in the **Measurement Interface**, short press the **[Graph]** key to enter the **Graph Interface**.
- **T1/T2 Channel:** short press the **[Func]** key to switch between T1 Channel and T2 Channel.
- **Unit:** short press the **[°C/°F]** key to switch between Celsius Degree (°C) and Fahrenheit Degree (°F).
- **Graph Hold:** short press the **[HOLD]** key to hold the displayed graph, and the 'HOLD' symbol will appear on the color LCD. And short press again to release the displayed graph, and the 'HOLD' symbol will disappear.
- **Exit the Graph Interface:**
in the **Graph Interface**, short press the **[Graph]** key to exit the **Graph Interface**.

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Statistic

°C	STATS T1	STATS T2
UUT	20.85	36.71
MAX	20.87	36.75
MIN	20.85	36.71
AVG	20.86	36.73

- **Enter the Statistic Interface:**
in the **Measurement Interface**, short press the **[MAX/MIN]** key to enter the **Statistic Interface**.
- **Unit:** short press the **[°C/°F]** key to switch between Celsius Degree (°C) and Fahrenheit Degree (°F).
- **Data Hold:** short press the **[HOLD]** key to hold the displayed data, and the 'HOLD' symbol will appear on the color LCD. And short press again to release the displayed data, and the 'HOLD' symbol will disappear.
- **Exit the Statistic Interface:**
in the **Statistic Interface**, short press the **[MAX/MIN]** key to exit the **Statistic Interface**.

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Battery Replacement

1. When the battery is low, it is necessary to replace batteries in time.
2. Open the battery cover and remove the old batteries.
3. Replace the new batteries correctly according to "+" and "-" in the battery compartment.
4. If the meter will not be used for a long time, please remove the batteries to prevent the batteries from rot and damage the meter.

Battery Symbol	Descriptions
	The battery is high.
	The battery is medium.
	The battery is low.

Cleaning

To avoid damage, do not use abrasives or solvents for cleaning the meter. Do not disassemble the meter without authorization, the wrong method will cause man-made damage.

Services

If you want to know more services, please contact with services@realltech.cn.

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