High-Precision Resistance Thermometer
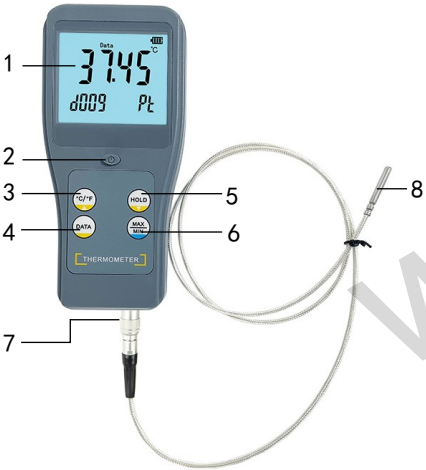
RTM1511

User's Manual

Version：V1.1

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Introduction

It is a high-precision RTD thermometer that uses PT1000 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

- Large LCD with display.
- 1 sampling channel.
- High-precision PT1000 platinum thermal resistance is used for temperature measurement.
- Temperature unit (°C/°F).
- Accuracy up to 0.1°C.
- 0.01°C/°F high resolution.
- With data storage function (99 Groups).
- With maximum, minimum function.
- With data hold function.
- With battery indication function.
- With automatic power off function.

Descriptions

1 LCD	6 MAX/MIN Key
2 Power/Backlit Key	7 Probe Connector
3 °C/°F Key	8 Probe
4 DATA Key	
5 HOLD Key	

Specifications

Display	LCD
Sensor	PT1000 Platinum Resistance
Range	-200～500°C (-328～932°F) (Depend on Probe)
Accuracy	±0.1°C
Resolution	0.01 (-100～100) 0.1 (Other)
Unit	°C/°F
Sampling Channel	1 Channel
Storage	99 Groups (Manual Storage)
Statistical Functions	Maximum, Minimum
Automatic Power Off	10 Minutes (No Operation)
Operating Conditions	0～50°C (32~122°F)； 0～80%RH (No Condensation)
Storage Conditions	-10～60°C (14~140°F)； 0～90%RH (No Condensation)
Power Supply	4×1.5V AAA(UM-4) Battery
Size	170×80×31mm
Weight	176g (Not Including Batteries)
Standard Accessories	Main Unit×1, PT-01A Probe×1 (PT1000, Range: -50~200°C), Manual×1, Carrying Case×1
Optional Accessories	Probes of Other Size

Instruction

- **Power On：** press and hold the 【Power/Backlit】 key.
- **Power Off：** press and hold the 【Power/Backlit】 key for 3 seconds.
- **Backlit On/Off：** short press the 【Power/Backlit】 key to turn on the backlit. And short press the 【Power/Backlit】 key again to turn off the backlit.

Measurement

- **Enter the Measurement Interface：** after powering on, it will enter the **Measurement Interface** automatically.
- **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 LCD. And short press the 【HOLD】 key again to release the displayed value, and the 'HOLD' symbol will disappear.
- **Maximum/Minimum：** short press the 【MAX/MIN】 key to display the maximum value, and the 'Max' symbol will appear on the LCD. And short press the 【MAX/MIN】 key again to display the minimum value, and the 'Min' symbol will appear on the LCD.
- **Data Storage：** press and hold the 【DATA】 key to storage the displayed value.

Data Viewing

- **Enter the Data Viewing Interface：** in the **Measurement Interface**, short press the 【DATA】 key to enter the **Data Viewing Interface**.
- **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**.

Battery Replacement

1. When the indication "▭" symbol appears on the display, it means low battery and needs to replace batteries timely.
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.

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.