Dew Point Meter RTM2610S

User's Manual

Version: V1.2 Date: 2024.09



Descriptions

1 Sensor Connector

3 Power/Backlit Key

4 Dew/Wet Kev

5 °C/°F Key

2 LCD



7 MAX/MIN Key

8 AH/PPM Key

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9 Separate Sensor

Specifications

Display		LCD		
Test Parameters		Ambient Temperature, Dew Point Temperature, Wet Bulb Temperature, Relative Humidity, Absolute Humidity, PPM		
		Range	-30~120°C (-22~248°F)	
		Accuracy	±0.4°C (90~120°C)	
Ambie	ant .		±0.2°C (60∼90°C)	
	erature		±0.1°C (20∼60°C)	
	W.		±0.2°C (-30~20°C)	
V		Resolution	0.01 (<100)	
			0.1 (Other)	
		Range	0∼100%RH	
Relati		Accuracy	±1.5%RH (0~80%RH)	
Humid	dity		±2%RH (Other)	
		Resolution	0.01	
Dew F	Point	Range	-45~120°C (-49~248°F)	
	erature	Resolution	0.01 (<100)	
			0.1 (Other)	
Wet B	Rulh	Range	-20∼40°C (4∼104°F)	
	erature	Resolution	0.01 (<100) 0.1 (Other)	
Absol	uto	Range	0∼400g/m³	
Humid		Resolution	0.01 (<100) 0.1 (Other)	

PPM	Range	0~50000	
1 1 101	Resolution	1	
Temp. Unit	°C/°F		
Statistical Functions	Maximum, Minimum		
Automatic Power Off	10 Minutes (No Operation)		
Operating	0~50°C (32~122°F);		
Conditions	0∼80%RH (No Condensation)		
Storage	-10~60°C (14~140°F);		
Conditions	0∼90%RH (No Condensation)		
Power Supply	4×1.5V AAA(UM-4) Battery		
Size	170×80×31mm		
Weight	338g (Not Including Batteries)		
	Main Unit×1		
Standard	DP10 Separate Sensor×1		
Accessories	Manual×1		
	Carrying Case×1		
Optional	DP30 Separate Sensor		
Accessories	DP80 Sepa	rate Sensor	

When the measured dew point temperature is lower than -20°C, please calibrate it yourself to ensure the accuracy of the measurement.

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Introduction

It is a professional digital dew point meter. It is able to measure Ambient Temperature, Dew Point Temperature, Wet Bulb Temperature. Relative Humidity. Absolute Humidity, PPM. It can quickly respond to temperature and humidity measurements in the industrial range. It is also capable of measuring temperature and humidity in a variety of complex environments.

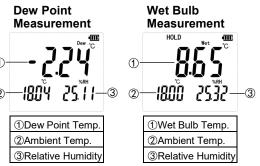
Widely used in workshops, warehouses, libraries, offices, computer rooms, laboratories and other environmental temperature and humidity monitoring occasions.

Features

- . Large LCD with display. It can display three values at the same time.
- Support multi-parameter measurement of ambient temperature, dew point temperature, wet bulb temperature, relative humidity, absolute humidity, PPM.
- Temperature unit (°C/°F).
- 0.01 high resolution.
- High accuracy.
- With maximum, minimum function.
- With data hold function.
- · With battery indication function.
- With automatic power off function.
- · Separate sensor, suitable for a variety of occasions.

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.

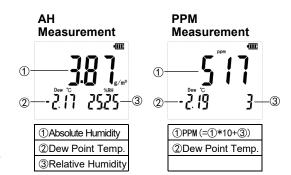


- Enter the Measurement Interface: after powering on, it will enter the Dew Point Measurement Interface automatically.
- Dew Point/Wet Bulb Measurement Interface: short press the [DEW/WET] key to switch between dew point measurement interface and wet bulb measurement interface.

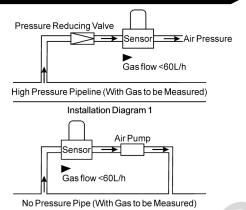
Instruction

- . AH/PPM Measurement Interface:
- short press the [AH/PPM] key to switch between absolute humidity measurement interface and ppm measurement 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 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.

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Sensor Installation



Installation Diagram 2

Notes:

- 1. If the measured gas has a high pressure/flow rate, a pressure reducing valve needs to be installed in front of
- 2. The sensor must be in complete contact with the flowing gas to be measured.
- 3. If the measured gas cannot be vented externally, it is necessary to add an air pump at the rear of the sensor to return the measured gas to the pipeline.

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4. Pay attention to the direction of the sensor when installing, do not install it backwards.

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.
- 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.