

Digital Thermometer Hygrometer

User's Manual



User Instructions

- ◆ This manual introduces application method, attentions and other items about the product in detail. Please read it intently to make sure of its function playing perfect well.
- ◆ Do not use it in flammable, explosive circumstance.
- ◆ Do not throw away the used battery with the normal household waste, please deal with it by nation or local related law and regulations.
- ◆ If there are any troubles on quality, or any doubts about how to use, please contact that local agent or us, we will solve it as soon as possible.

professional casts quality and good quality gets reputation

Contents

Before operation	03
◆ Detail packing list	03
◆ Brief introduction	03
◆ Specifications	04
◆ Names of parts of the meter	05
◆ LCD(liquid crystal display)	05
◆ keys	06
Operating instructions	07
◆ Batteries installment	07
◆ Power on/off	07
◆ Measurement	07
◆ Temp/Humidity max/min value alarm	08
◆ Temp/Humidity max/min value testing	09
◆ Datum holding	11
◆ Datum storage	11
◆ System setting	12
◆ Power display	16
Attentions	16
◆ General problems	16
◆ Working environment	16

Before operation

Detail packing list

Please check if there are all appendixes according to the following list. If there are not, please contact the local agent or us as soon as possible.

NO.	DESCRIPTION	UNIT	QTY	NOTE
1	the meter	pc	1	
2	1.5V AAA Batteries	pc	3	
3	giftbox	pc	1	
4	manual	pc	1	

Brief introduction

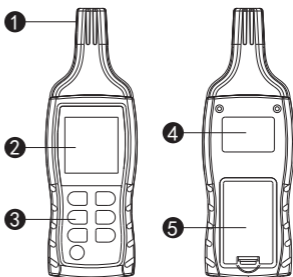
This meter is for testing the environmental temperature and relative humidity which is the percentage expressed by %RH signal of the absolute content in air with the saturated steam content in same temp, pressure and volume air. The ways of using is extensive, for instance, hyperpure metal smelting, textile process, papermaking, printing and dyeing, and food storage, weather forecasting, the temp/humidity in air or industrial process can be tested or controlled by the meter.

Specifications

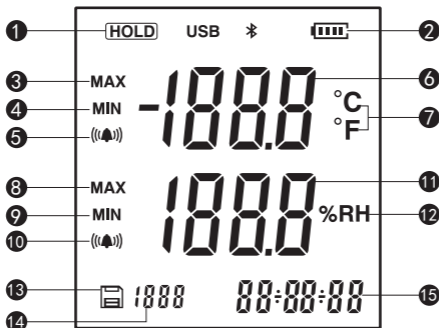
temp measurement range	-20.0°C~60.0°C (-4°F~140°F)
temp measurement accuracy	±0.3°C (±0.5°F)
temp resolution	0.1°C (0.1°F)
humidity measurement range	0%~100%RH
humidity measurement accuracy	±3%RH
humidity resolution	0.1%RH
temp response time	>2s(depends on the heat exchanging type)
humidity response time	8s(the time of humidity going to to the order quantity, 25°C, 1m/s air flowing)
screen refreshing time	500ms
max/min temp alarm	√
max/min humidity alarm	√
max/min temp measurement	√
max/min humidity measurement	√
datum storage	100 datum
datum hold	√
auto backlight closing	10 minutes
auto off	30 minutes
power	3x1.5V AAA batteries
working temp/humidity	-20.0°C~60.0°C, 0%~100%RH
storage temp/humidity	-10.0°C~60.0°C, 20%~70%RH
dimension	188x63.5x27mm
net weight	129g

Names of parts of the meter

1. protection cover of the sensor
2. LCD
3. keys
4. the tag on back
5. batteries cabin










- Lcd



1. the signal of data hold
2. power display
3. max temp reading
4. min temp reading
5. temp alarm on/off display
6. temp reading
7. temp units °C and °F
8. max humidity reading
9. min humidity reading
10. humidity alarm on/off display
11. humidity reading
12. humidity unit
13. storage signal
14. NO.
15. time display

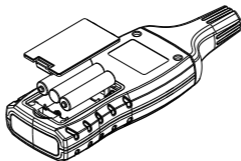
● Keys

Keys	Names	Introductions
	power	short press for on, extended press for off: in storage mode, extended press to clear recording
	temp units switches	short press for °C or °F
	data hold	short press for current reading
	temp alarm key/max/min testing value	extended press for temp alarm on or off: short press for the mode of temp max or min, or normal testing
	data storage	extended press for current data's storage; short press to check recording
	humidity alarm key/max/min testing value	extended press for humidity alarm on or off; short press for the mode of humidity max or min, or normal testing
	backlight/setting key	short press to turn backlight on or off; extended press for system setting


Operating introductions

Batteries installment



Open the cover of batteries cabin on the back of the device, put batteries which should be 3x1.5V AAA battery type in according to right polarity, then put the cover back.



Power-on/off

Short press  key to turn it on, extended press it to shut down.

It will shut itself down without no operations in 30 minutes.

Attention: The function of auto-off can be turned off: in power-off condition, press  switch firmly, then press  key, the signal **【APO OFF】** on screen means it's done.

Testing


The device starts real-time testing after power-on, on screen is the current environmental temp, humidity and time.




Max/min value alarm

The alarm is on tacitly after power-on, at the moment, the alarm signal ((🔔)) is shown on screen

The default will be set as alarm value each time its power-on(the min temp alarm value is -20.0°C / -4°F , the max temp alarm value is 60.0°C / 140°F , the min humidity alarm value is $0\%RH$, the max humidity alarm value is $100\%RH$. The operation refer to the chapter of system setting.


Extended press the  key for temp alarm on/off; in on situation, the device will sound "beep beep beep" and the reading on screen flashes when the temp tested value is beyond or below the alarm value.


Extended press the  key for humidity alarm on/off; in on situation, the device will sound "beep beep beep" and the reading on screen flashes when the humidity tested value is beyond or below the alarm value.


Testing of max/min value

The device has the function of testing max/min value of temp/humidity.(in this testing mode, the alarm function will be shielded). Operations as follows:


1. temp testing


1 >. It's the normal testing mode after power-on, so short press  key for the testing mode of max temp value, at the moment, the signal MAX lights, the real-time max temp reading is shown on screen;


2 >. It's the testing mode of max temp value in current, short press  key for the testing mode of min temp value, at the moment, the signal MIN lights, the real-time min temp value is shown on screen;

3 ›. It's the testing mode of min temp value in current, short press  key for the normal testing mode.

2. humidity testing

1 ›. It's the normal testing mode after power-on, so short press  key for the testing mode of max humidity value, at the moment, the signal MAX lights, the real-time max humidity reading is shown on screen;


2 ›. It's the testing mode of max temp value in current, short press  key for the testing mode of min humidity value, at the moment, the signal MIN lights, the real-time min humidity value is shown on screen;



3 ›. It's the testing mode of min humidity value in current, short press  key for the normal testing mode.

Datum hold

The current reading can remain same.

Operations as follows:



1 ›. The normal testing mode is tacit after power-on, short press  key, the real-time temp/humidity reading remains and the **HOLD** signal is flashing;






2 ›. In HOLD situation, short press  or  key to return to normal testing mode.


Datum storage

Currently, the temp, humidity and time reading can be stored. The signal "FUL" will be shown on screen after 100 times which is the max storage times to remind user that the storage capacity is full now.


Operations as follows:

1 ›. Datum storage: extended press  key to store current temp, humidity and time reading, file signal  and storage number is on screen;

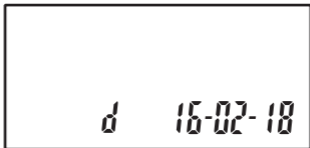
2 >. Check recording: short press  key to check recording. At the time, on screen are the last temp, humidity, time and file signal , NO. . Check previous or next record by short pressing  or  key. In this situation, it's very convenient for user to look up the recording's date and time. Short press  key to return to testing mode.


3 >. Delete recording: in checking-recording mode, extended press  key to delete recordings, and back to testing mode.

System setting



The system setting includes date, time, temp/humidity max/min alarm value setting. Extended press  key to entry date setting page, then, press it again to next setting page and so on till back to the setting page. Operations as follows:


1. Date setting




1 ›. Choose year, month, day through  and

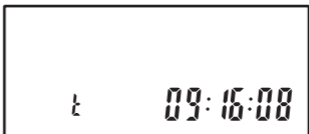
 keys

2 ›. Alter figures through  and  key;

3 ›. Press  key to save the datum and go to time setting page;



4 ›. Press  key to return to setting page and to not save the altered figures.


2. Time setting




1 ›. Choose hour, minute, second through  and

and  key;





2 ›. Alter figures through  and  key;

3 ›. Press  key to save the datum and go to min temp alarm value setting page;

4 ›. Press  key to return to setting page and to not save the altered figures.






3. Min/max temp alarm value setting





- 1 ›. Alter figures through  and  keys;
- 2 ›. In min temp alarm value setting page, press  key to save the altered figures and go to max temp alarm value setting page; vice versa.
- 3 ›. Press  key to back setting page and lose altered datum.

4. Max/min humidity alarm value setting



- 1 >. Alter figures through  and  keys;
- 2 >. In min humidity alarm value setting page, press  key to save the altered figures and go to max humidity alarm value setting page; In max humidity alarm value setting page, press  key to save the altered figures and go back to setting page;
- 3 >. Press  key to back to setting page and lose altered datum.

Power display

The device has adequate power, on screen is the  signal,  signal means low power and please change batteries when it flashes.

Attentions

Common problems

- 1 >. ERR shows after power-on: the sensor or the internal storage is damaged, in this condition, return to factory service.
- 2 >. Nothing shows after power-on: low power, please change batteries.

Working environment

- ◆ Do not use it nearing corrosive materials.
- ◆ Do not use it if it could be splashed.
- ◆ Do not use it in heavy dusty circumstance.
- ◆ Do not use it in chemical gas circumstance.