User Manual





1. Safety instructions

Please read the following information carefully before operating:

- (1) The meter can be operated in the environment of -30~65°C, 0~100%RH(non-condensing). The meter may be damaged if used in other environment.
- (2) The battery can be used at the temperature of -15~50°C. If you need to use the meter at other temperatures please change the battery.
- (3) Please do not disassemble or repair the meter by yourself.
- (4) Please remove the battery if the meter is not used for a long time.

2. Product selection guide A B



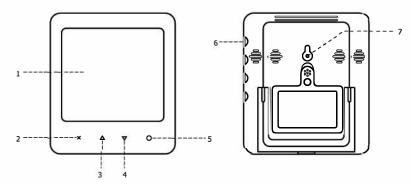


Model No.	TH3010	TH3020
Temperature	•	•
Humidity	•	•
Data logging	0	•

• means the product enabled, o means the product disabled.



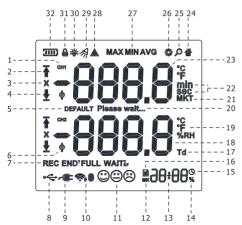
3. Appearance



- 1. LCD
- 2. Remove limit violation symbol
- 3. Temperature unit switching or +
- 4. View or -

- 5. Power or setting
- 6. External probe socket
- 7. Reset button

4 LCD Introduction



T:Display when exceeding the upper limit currently. ♣:Display when exceeding the lower limit currently.

X:Display when exceeding the upper or lower limit currently or before.

- indication
 - 18. Reading 2
 - 19. Temperature/ Humidity unit
 - 20 Wait state 21 Mean kinetic temperature
 - symbol 22. Time unit
 - 23. Reading 1

symbol

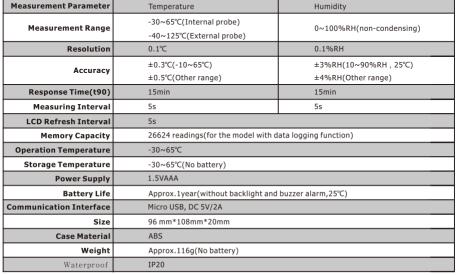
24. Home interface indication

17. Dew point temperature

- 25. View mode indication
- 26. Setting mode symbol 27. Minimum / Maximum /
- Average symbol
- 28. Warning symbol 29. Buzzer alarm enabled
- indication 30. Backlight enabled
- indication 31. Display when key is locked
- 32. Battery level

- 1. Channel number
- 2. Upper limit violation
- 3. Limit violation symbol 4 Lower limit violation
- indication 5. Display when restoring the factory settings
- 6. External probe symbol
- 7. Record status indication
- 8. USB communication symbol 9. display when charging via USB
- 10. Wireless signal indication
- 11. Human comfort indicator
- 12. Mark indication
- 13. Time
- 14. Percentage symbol
- 15 Clock symbol 16. File symbol

5. Specifications





6. Operation

The meter will self-lock if not any operation within 15 seconds(the icon a will be displayed). Hold the key for 2 seconds to unlock it. You can hear a sound "di" when pressing a key.

6.1 Power on

- (1) The meter will turn on automatically when installing new batteries;
- (2) If the meter has been shut down, hold the key \(\cap \) for 3 seconds to turn it on.

6.2 Power off (invalid during logging)

- (1) In home interface, hold the key \(\Omega\) until "off"shows, then the meter will power off.
- (2) When battery is low or temperature exceeds the operation temperature, the meter will power off.

6.3 Temperature unit switching (invalid during logging)

Hold the key △ for 2 seconds to switch Fahrenheit and Celsius.

6.4 Dew point display switching

Click the key Λ to switch temperature and dew point temperature.

6.5 Time display switching

Click the key O to toggle the display between year, month, date and time.

6.6 View the maximum, minimum, average, upper and lower limits

Click the key ∇ to view the values, including maximum, minimum, average, upper and lower limits. In view mode(the icon Ω will be displayed), it will return to home interface if not any operation within 15 seconds, or you can press \times , Δ or ∇ to go back to home interface.



6.7 Clear the statistical data (For the model without data logging function)

Hold the key ∇ for 2 seconds to delete the statistical data, including maximum, minimum and average (the MAX/MIX/AVG symbol will flash once). Then it will restart to calculate the maximum, minimum and average values.

6.8 Turn off the buzzer alarm

If the buzzer alarm has been enabled, the buzzer will be ringing when exceeding the upper/lower limit. Click any key to turn off the buzzer

6.9 Remove limit violation symbol (invalid during recording)

Hold the key X for 2 seconds, and the limit violation symbol X will be removed after a sound "di".

6.10 Parameter setting(invalid during recording)

In setting mode, you can click the key \bigcap to go into the next setting, or you can click the key \times to go back to the previous setting.

(1) Enter setting mode:

In home interface, hold the key \bigcirc until the year value flashes, then you will enter the setting mode(the icon \bigcirc will be displayed). Click the key \bigcirc to set the following parameters: time, buzzer duration, backlight duration (for the model without data logging function), the upper/ lower limit of each channel, measuring interval, and file format (for the model with data logging function). press the key \triangle to increase the value or press the key ∇ to decrease the value. "On" means that the function is disabled.

(2) Exit setting mode:

Click the key \bigcap after finishing the setting, and the meter will save the settings and exit setting mode. In setting mode, if not any operation within 15 seconds, the meter will save the settings and go back to home interface. You can also hold the key \bigcap for 2 seconds to go back to home interface.

6.11 View the serial number

Hold the key \bigcirc and the key \bigvee at the same time for 2 seconds, and the serial number will be displayed on the screen.

6.12 Restore the factory settings(invalid during logging)

Hold the key ★ and the key ▲ at the same time until showing "DEFAULT" and the icon ፟ .



6.13 Reset

Click the reset button to restart the meter. Note: Reset during logging will result in partial loss of data recorded in past five

7. Data logging and files (for the model with data logging function)

7.1 Start logging

Hold the key ∇ for 2 seconds to start logging, and "REC" will be displayed on the screen (For more details, please refer to the status symbol table).

7.2 Stop logging

- (1) Hold the key ∇ for 2 seconds to stop logging, and "FND" will be showed on the screen.
- (3) The meter will stop logging when memory is full("END FULL" will be displayed on the screen).
- (4) The meter will stop logging and power off when battery is low.

7.3 Logging files

Logging files are named by the serial number and the time to start logging. Four file formats can be set (For more details, please refer to the file format symbol table). You can view the file on a computer.

7.4 Delete logging files

- (1) Format the disk by a computer.
- (2) Open the disk on a computer, and remove the logging files.
- (3) Restore the factory settings.



8. Tips and helps

- (1) When all the keys cannot respond, it indicates that the meter is undergoing self-calibrating, please wait and try again after 15 seconds.
- (2) The meter supports the use of external probe. Please insert the external probe into the external probe socket and restart the meter, and the symbol ϕ will be displayed on the screen.
- (3) When the battery symbol flashes or "oFF" shows on screen, it indicates that the battery is low, and the meter will turn off automatically. Please replace the battery timely.
- (4) When the screen shows exception code, please refer to the abnormal code table for the reason. Any questions, please contact with after-sales.

Abnormal code table

Sensor failed to communicate	
Hardware error	Err0
Abnormal supply voltage	Err2
Operation temperature is too high	HI
Operation temperature is too low	Lo
Less than 2 recording points	NoNE
Insufficient disk space	FULL

Status symbol table

WAITĸ	Wait to start logging
REC	Under record status
END	Stop logging when memory is not full
END FULL	Stop logging when memory is full

File format symbol table

dlg	dL9	
txt	EHE .	
xls	HLS	
csv	CSU	