

sisco



accuracy

fast

safe

catalogue

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1. Introduction

Dew point temperature meter for industry is a high precision professional handheld dew point instrument designed, with high precision and wide range, which can accurately measure dew point temperature in a wide measurement range probe.

It can be directly inserted into the pressurization process, and quickly respond to and test the process environmental conditions, for industrial dew point measurement

Quantitative applications provide accurate and rapid measurements, widely used in the laboratory, electric electricity, SF₆ gas

Direct process dew in large temperature and large pressure range in the fields of measurement, precision manufacturing and chemical pharmaceutical Point measurement.

2. Product characteristics

- Designed specifically for industrial field inspection
- Accurate measurement range -50°C ~ 30°C (-58° F ~ 86F)
- High quality sensor, suitable for low humidity measurement
- Low maintenance requirements due to excellent stability
- The sensor can withstand the condensation
- Quick response, enhanced with the sensor clearance option
- An intuitive user interface**
- The data record can be opened via the Excel and transferred to the PC
- Multiple choices of measurement parameters show, professional low humidity and dew point measurements, H₂O ppmv or p pmw measurements
- Lithium battery 3.7V, universal MicroUSB 5V charging interface
- Color screen display
- Save the measurement data, and you can choose to save the data
- Data logger recording function
- Meter USB flash drive, connect and copy the files to the PC and then Excel to view the data files
- High-quality industrial design**

3. Technical indicators

relative humidity%RH

range 0~100%

resolution ratio 0.01

Accuracy RH <5% ± (0.025% RH + 17.5% reading)

RH > 5% ± (1% RH + 5% reading)

RH > 15% ± (29% RH + 3% reading)

dew-point temperature

range -50~30°C (-58~86° F)

Resolution of 0.01

Accuracy ± 2 ° °C (-40~20°C)

±2.5°C(-50~-40°C)

water vapour PPM

range 40-20000 ppm

resolution ratio 1

Accuracy ± (7.3ppm + 8.3% reading)

temperature

range -10~60°C (14~140°F)

Resolution of 0.01

Accuracy -10~50°C (14-122 F)

±0.3°C(±0.54F)

Test at an ambient temperature of 16 to 25°C

Sensor use environment parameters:

Temperature: -10~60°C (14~140F)

Air pressure: 0~20bar (absolute)

Response time: airflow 0.2 m/s, 1 bar pressure, 20 ° °C

(68° F) 63% [90%]

0~-40°C Td (32~-40° FTd) 20s [120s]

-40~0° °C Td (-40~32° FTd) 10s [20s]

4. Functional characteristics

1. A variety of measurement parameters selection shows, professional low dew point measurement, water ppm measurement
2. Power supply to 3.7V lithium battery, MicroUSB 5V charging interface
3. Color screen design
4. HOLD data preservation, data recording, computer Excel to view the data
5. Industrial shape design

5. The Chinese and English control of the measurement items

①temperature T ("C /" F) temperature

Range:-10.0~60.0°C (14.0~140.0° F)

②dewpoint / frost point t emperature Td / f (C / " F) dewpoint / frost point temperature

Range:-50.0~30.0°C(-58.0~86.0°F)

③dewpoint temperature Tdl (C / " F) dew point temperature

Range:-50.0~30.0°C(-58.0~86.0°F)

④dewpoint/frost point in the atmospheric pressure Td/f°C atm/"F

Atm) frost temperature under atmospheric pressure

Range:-50.0~20.0°C(-58.0~68.0°F)

⑤dewpoint in the atmospheric pressure Td ("Catm /" F atm) at atmospheric atmosphere

Dew point temperature value

Range:-50.0~20.0°C(-58.0~68.0°F)

⑥relative humidity RH (9%) Relative humidity

Range:0~100.00%

⑦humid air / dry air H 20 ppmv / ppmw, water vapor volume ratio and mass ratio

40~200000

⑧absolute humidity a (g / m3) absolute humidity

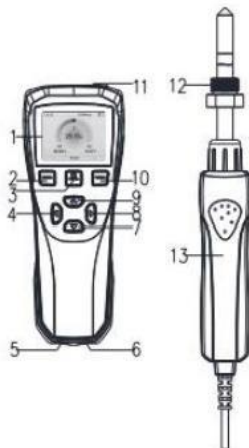
Range:0.5~100.0g/m3 (0.2~40.0gr/t3)

⑨ mixing ratio r (g / kg) moisture mixing ratio

Range:0.2~100g/kg(2~700gr/lbs)

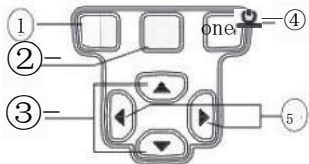
6. Instrument description:

- ① LCD color screen
- ② returns / exits
- ③ Short press boot / long press shutdown / hold
- ④ LeftArrow
- ⑤ Interface 1 (no function)
- ⑥ Interface 2 is connected to the measuring probe
- ⑦ under the direction key
- ⑧ right-direction key
- ⑨ on the orientation key
- 00 Confirm / selection
- ⑩ MicroUSB Interface
- ⑫ G1 / 2 " probe interface
- ⑬ measured the probe



Key basic description

- ① Return / exit key: return to the superior menu to enter the chart curve function under the main interface.
- ② ON / OFF / HOLD key: Short press for HOLD function key under the main interface, and long press under any interface for 3 seconds for shutdown prompt.
- ③ Up and down keys: used to select options, the increase of the number decreases.
- ④ Confirm / select key: the main interface is to enter the main menu, and the other functions are confirmation function key.
- ⑤ Left and right keys: used to select options and switch the value to be changed.

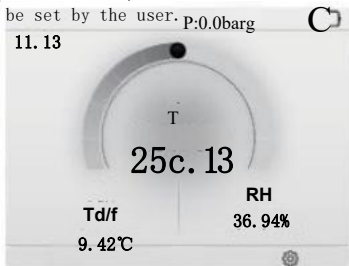


7 .main interface

1. Press the button to enter the view Hold Save Data interface.
2. HOLD can keep the value displayed on the screen, and the screen data can be saved under the holding state. The data saved in this way will be stored in HOLD and Save. In the csv file, connect the computer and use

Excel Software can open a saved data file.

3. interface, the battery power is displayed in the upper right corner, and P:0.0barg is the probe test The time is displayed in the upper left corner of the main The air pressure value, which needs to be set by the user.



Keys
oil HOLD
return.

Main menu interface and icon
Select the menu icon through the left and right keys, enter the menu through the keys, or the left function



Function Settings

Function setting is mainly alarm function setting, selected through the upper and lower direction keys.

Alarm setting: select a Td / f or T, etc.

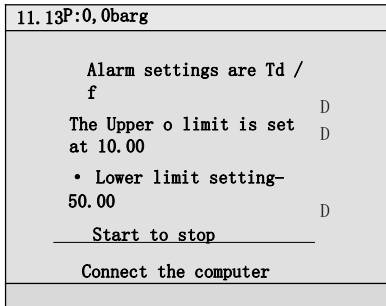
Upper limit setting: set the upper limit value by entering the upper limit setting interface.

Lower limit setting: set the lower limit value in the lower limit setting interface through the key.

Start to stop: open or stop the alarm function through the button.

When the measurement value exceeds the upper and lower limits, the bell symbol appears at the top of the interface

Connect the computer: enter the connection computer interface, keep the instrument host in the connection computer interface, connect the computer and save the data files to the computer.



data logging

Data recording function setting, select setting items through the upper and lower direction keys, select, select, or open / stop.

Record interval: select 10 sec (seconds), 1min (minutes), 5min, 10min, 20min.

Record time: you can choose 1, 5, 12, 24, 48 hours. During the automatic instrument recording, the first recording time of the recording file, such as 2011_8_8-9_20_20.csv, per record

1000 sets of data automatically generate one file, up to 32 files (including manually saved files HOLD and Save.csv)。

- Note: If more than 10 hours of data recording is required, it is recommended to connect the Micro USB and DC 5V power supply to ensure the power supply of the instrument for a long time.

* The recorded data is saved in CSV format, connected to a computer and can be opened using Excel software. Please note to save data to the computer.

"During the automatic data recording process, the automatic shutdown function does not work.

11.13	
● interrecord gap	5min
0 Record time:, Start / stop • View data	Shour
○ clear data	

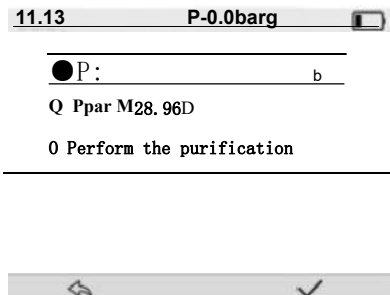
Display settings

The main display interface shows three parameters, temperature T fixed display, the remaining parameters can be arbitrarily and only selected two. The keys can be selected or unselected before other parameters can be selected. The UNIT / unit button can switch units under this interface.



Environmental parameters / measurement settings

Select to set the probe ambient pressure P, the molar mass of the gas measured by the probe.



Set the probe pressure

You can set the pressure value and its units bara, barg, psia, psig. Set the air pressure of the measured gas.

Increase and decrease values through the upper and lower direction keys, and select units. Select the number to set with the left and right keys Value or unit.



Set the probe to measure the molar mass of the gas

The air molar mass is 28.96g/mol and SF 6 molar mass is 146.05g/mol, and SF 6 gas was measured

The ppmw M needs to be set to 146.05g/mol, which participates in the display calculation.

Increase and decrease values through the upper and lower direction keys, and select units. Select the number to set with the left and right keys Value or unit.



Perform purification

Select "Perform purification option" and the probe will perform purification and heat the drying sensor. The purification process takes about five minutes. After the probe is stored, when the purification is not performed in the last 24 hours, the sensor purification function shall be performed.

Full charge calibration, after full charge, full charge calibration operation selection will appear under the environmental parameter menu. If the battery indicates that the full charge is not accurate after full charge, the charge can be calibrated at full charge.

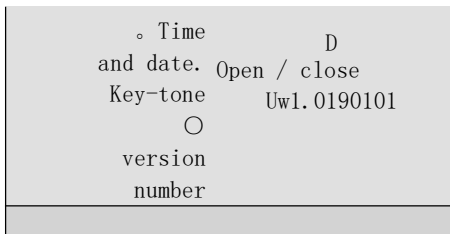
Other settings

Language settings: Chinese and English.

Automatic shutdown time setting is optional off, 10, 15, 20, 25, 30min (minutes).

Screen brightness display

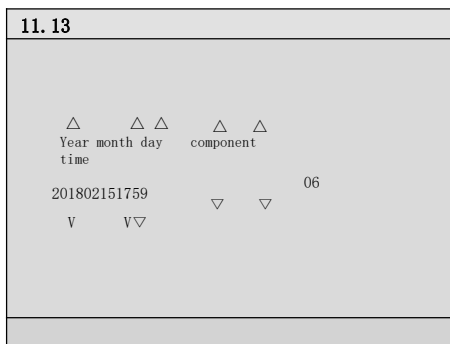
11.13	
● Language, Lanquage	the Chinese language
. auto shut off	
o screen intensity	30min 10pre



Time and date setting, through the upper and lower keys, and confirm the save setting time.

Keynote sound control

Firmware version number



(" Note: Products, accessories and detailed parameters, please refer to the physical parameters)