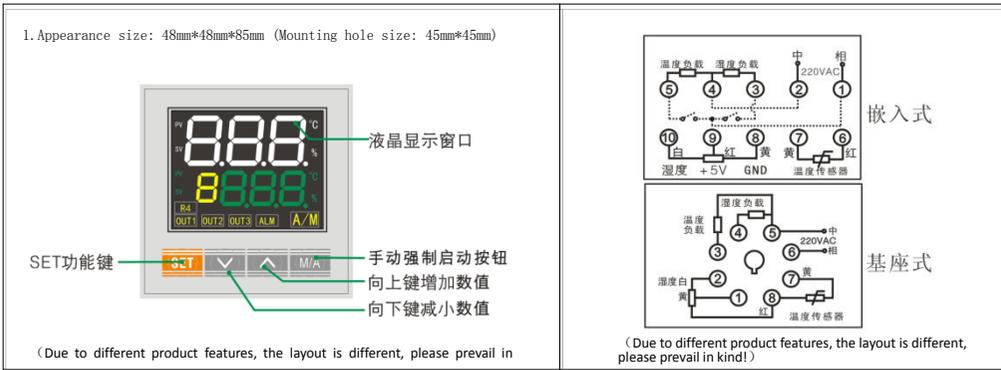# WSK 2081 intelligent liquid crystal temperature and humidity high precisionmonitor

I、Overview: this product has a small error of measurement, control, high precision and can be widely used in all kinds of high precision temperature control and wet places. Import temperature, humidity sensor of inductive components for the environment temperature, humidity, real-time monitoring, color LCD screen display setting value and measured value and the working state, the display content with different color, show clear, decent, intuitive easy to distinguish. According to the preset control values, mandatory start automatically or manually controlled load to adjust the temperature and humidity of environment。

II、Technical parameters：

1.Operating voltage: 50HZ AC220V + 10% (AC/DC110-220V + 10%)

2.Temperature measurement range: -30～130 C C (optional -50-120 C)

3.Working environment temperature: -10 to 50 degrees Celsius humidity is less than or equal to 85%RH, the power consumption is less than 5W

4.Temperature control mode: L / cool type; humidity control mode: desiccant

5.Main control output: there is / passive, resistive load, contact capacity 5A AC220V

6.Alarm output: there is / passive, resistive load, contact capacity 5A AC220V4.Humidity measurement range: 20～99%RH

7.

III、Panel layout and schematic wiring diagrams：

1.Appearance size: 48mm*48mm*85mm (Mounting hole size: 45mm*45mm)

液晶显示窗口

SET功能键
手动强制启动按钮
向上键增加数值
向下键减小数值

嵌入式

基座式

（Due to different product features, the layout is different, please prevail in

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IV、Operation flow corresponding to the "symbol" Description: parameter significance and the value of the factory：

1. The temperature set value "Se" (1-4): can be set to the first road (up to four) temperature control target, when the temperature measurement to control the target instrument starting control, can be as the warming type control output or temperature control output (heating or cooling type order specified), home range -50-120 DEG C heating type factory default settings for 5 DEG C, cooling type factory default settings is 35 DEG C.

2. Over temperature alarm set value "he" (1-4): can be set the first road (up to four) over temperature alarm target value, when the measured value is greater than the over temperature alarm target instrument starting control, set the range to 110 DEG C, the factory default settings for 45 degrees.

3. Low temperature alarm set value "Le" (1-4): can be set the first road (up to four) low temperature alarm target value, when the measured value is less than low temperature alarm target instrument rev control, set the range to -50-80 deg.c, the factory default settings of - 20 DEG C.

4. The temperature control mode "CE" (1-4): can be set the first road (up to four) temperature rev control mode: set to 0: instrument for heating mode: Set 1: instrument for cooling mode, instrument open and control way of warming up or cooling mode specified in the order.

5. Humidity setting value "Su" (1-4): can be set to the first road (up to four) humidity control target, when measuring humidity was greater than that of the control target value instrument starting control, set the range for 0-100%RH, the factory default settings for 75%RH.

6 Super wet alarm set value "Hu" (1-4): can be set to the first road (up to four) and humidity wet alarm target value, when the measured value is greater than the wet alarm target instrument starting control, set the scope for 0-100%RH, the factory default settings for 85% RH.

Low humidity alarm set value "Lu" (1-4): can be set the first road (up to four road) humidity humidity alarm target value, when the measured
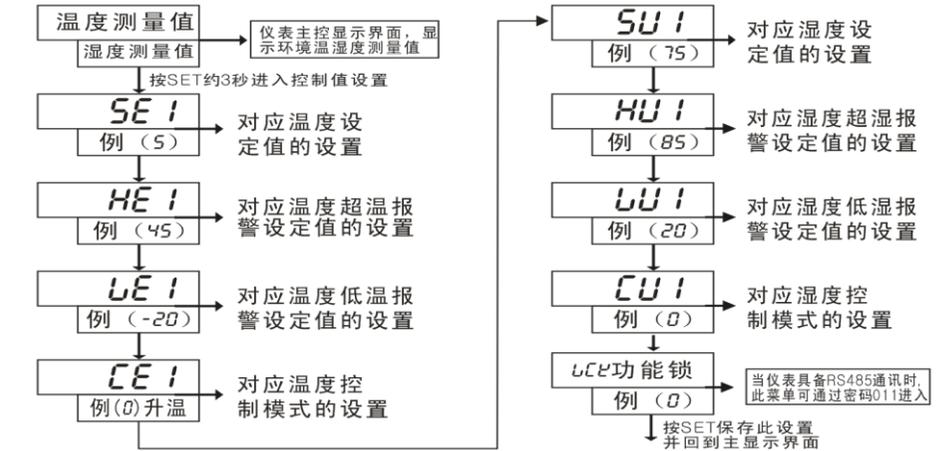
value is less than the low humidity alarm target instrument starting control, set the scope for 0-80%RH factory default settings for 20% RH.

Humidity control mode "CU" (1~4 Road): can be set the first (maximum four road) humidity control mode: the current factory set default for the desiccant. (for humidifying starting control mode for special orders, orders in particular).

Function lock "LCK": access to the two level menu through the password, now only open communication set the password

is 011 for RS485.

12.Operation flow chart：

Note: the above is a complete set of product flow chart, when the selected products without which a function, the set menu does not display the corresponding operating process

V、Function description：

1. Temperature rise type: when the measuring temperature is less than the set temperature, start the heating load, when the measuring temperature is greater than the set temperature and the temperature back difference (the default 5 degrees Celsius), close the heating load.

2. Cooling type: when the measuring temperature is greater than the set temperature, start the cooling load, when the measuring temperature is less than the set temperature minus the temperature return difference (default 5 C), close the cooling load.

3. Desiccant: when measuring humidity is greater than the set humidity, start the desiccant load, when the humidity is less than the humidity set minus the humidity back difference (default 10%RH), shut down the load.

4. Over temperature alarm: when the measured temperature value is greater than the alarm set value, over temperature alarm output, when the measurement temperature is less than the alarm setting value minus the return difference (the default 5 degrees Celsius), close the alarm.

5. disconnection alarm instructions: when the instrument control heater or fan output, the load is not working properly when the alarm output; when the sensor is disconnected, the sensor disconnection alarm output.

6. Manual forced open load: in some particular cases. Press the manual / automatic key when the load requires temporary work for about 3 seconds to manual indicator light, forced open the load: when the need to restore the state of automatic monitoring and then press the manual / automatic key for about 3 seconds to manual indicator lights, the monitor into automatic control.

VI、Fault description：

1. Digital tube display "-LL" or "HHH" for the instrument sensor fault, please check thesensor circuit.

2. Load control is not normal or normally open control, please check the set value and temperature mode.

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