



STP321

Humidity controller

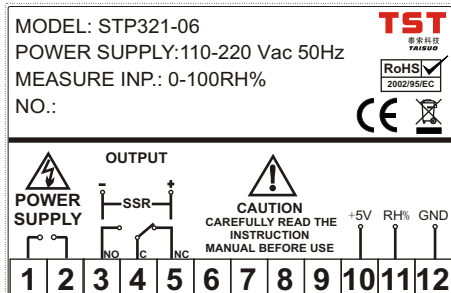
WARNING

- If failure or error of this instrument could result in a critical accident of the system, install an external protection circuit to prevent such an accident.
- Do not turn on the power supply until all of the wiring is completed. Otherwise electric shock, fire or malfunction might result.
- Use this instrument within the scope of its specifications. Otherwise fire or malfunction might result.
- Do not use this instrument in the places subject to flammable or explosive gas.
- Do not touch high voltage blocks, such as power supply terminals. Otherwise electric shock may result.
- Never disassemble, repair or modify this instrument by yourself. This might cause malfunction.

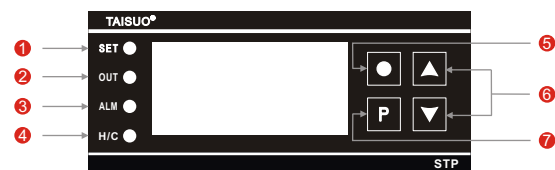
Technical Data

Dimension: 75×33×70mm
 Front protection: Ip65
 Mounting: panel-mounted with drilling template 71x29mm
 Accuracy: 5% or 3% on your choice
 Display: 3 digits LED display
 Power supply: 12-24VDC; 110-220VAC
 Operating temperature: 0-50℃
 Usage and storage ambient humidity: less than 80%RH(non-condensing)

Wire Connection



Front Panel



- 1 Indicating lamp which will be light only when the user is changing the set point.
- 2 OUT Indicating lamp which will be light when the OUT is active.
- 3 ALM Indicating lamp which will be light when the alarm relay is active.
- 4 H/C Indicating lamp which will be light **RED** when the control action is Humidify; and light **GREEN** when the control action is Dehumidify.
- 5 **Quit key**
Press this key to quit from parameter setting mode.
- 6 **"UP" and "DOWN" Key**
Press the keys to choose the parameters and set the values.
Press "UP" key to show the software version.
- 7 **Function key**
Press this key 3 seconds to enter set point setting mode.
Press this key 6 seconds to enter parameters setting mode.

Operation

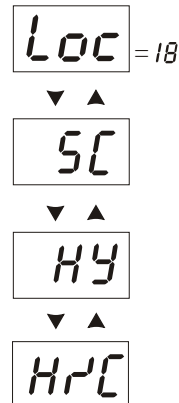
Power on

rH Display 4 seconds

45 Process value

Press the function key "P" 3 seconds to enter the set point setting mode. Then you can set the value with up and down key ▲ ▼.

Press the function key "P" 6 seconds, then the window will display the following parameters. Press up and down key ▲ ▼ to choose the parameters.



Parameters Description

Loc Lock parameter; Any time the user power on the instrument or press "P" 6 seconds to enter parameter setting mode, the default value of "Loc" is 0
 When you want to show all following parameters, please set "Loc"=18,

SC Compensation of the measuring value.
 You can set this parameter when there is a difference between measuring value and the real temperature.
 Range: -20 to 20 degrees
 Default: 0

HY Dead band of the control output.
 For example: HY=5; SV=70; then the controller will start dehumidify when PV > 75 in Dehumidify mode; and stop dehumidify when PV=65.
 Range: 1-20 RH
 Default: 5

HPC Humidify and Dehumidify control action selection.
 Press up or down key to choose the control action.
 H: Humidify.
 When "PV" < "SV-HY", OUT will be light;
 When "PV" > "SV+HY", OUT will be off.
 C: Dehumidify.
 When "PV" < "SV-HY", OUT will be off;
 When "PV" > "SV+HY", OUT will be light.

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