DIGITAL HUMIDITY CONTROLLER

Relative Humidity Control for Humidifier or Dehumidifier

With Temperature Detection/Control

□ Features

◆ Detect and display ambiance relative humidity& temperature

◆ A high accuracy RH & Temp. sensor inside

◆ LCD can display working status such as %RH, temperature, set point, and device mode, etc. Makes reading and operating easy and accurate

◆ Provide one or two dry contact outputs to control a Humidifier/dehumidifier and a cooling/heating device

◆ All models feature user-friendly setting buttons

◆ Enough parameters setup for end users for more applications. All setup will be held even if power failure

◆ Button-lock function avoids wrong operation and keep on the setup

◆ Infrared Remote Control (optional)

◆ Blue backlight (optional)

◆ Modbus RS485 interface (optional)

◆ Provide the controller with an external RH&Temp. sensor or external RH&Temp. sensor box

◆ Other wall mounting and duct mounting humidity controllers, please see our high accuracy hygrostat THP/TH9-Hygro series and THP –Hygro16 Plug-and-Play high-power humidity controller.

□ Buttons and LCD

relative humidity temperature
humidify
dehumidify
humidity device on
turn on/off
down | up
setting switch
set cool/heat mode for temperature
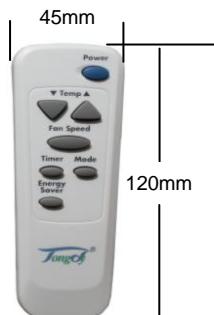
□ Models

Product Name	Model	Description
Humidity Controller Power supply: -(A)/(B)/(C) A: 230VAC B: 110VAC C: 24VAC/VDC	F2000P-TH-K01-(A)/(B)/(C)	Detect and display RH&Temp. 1XON/OFF relay output to control a humidifier or dehumidifier. The max. current is 5A.
	F2000P-TH-K02-(A)/(B)/(C)	Detect and display RH&Temp. 2 ON/OFF relay outputs to control a humidifier/ dehumidifier and a cooling/heating device. The max. current is 5A.
	F2000P-TH-K01-WT-(A)/(B)/(C)	Detect and display RH&Temp. with the external sensor. 1XON/OFF relay output to control a humidifier or dehumidifier.
	F2000P-TH-K02-WT-(A)/(B)/(C)	Detect and display RH&Temp. with the external sensor. 2 ON/OFF relay outputs to control a humidifier/ dehumidifier and a cooling/heating device.
Humidity Controller With Modbus	F2000PC-TH-K01-(A)/(B)/(C)	Detect and display RH&Temp. 1XON/OFF relay output to control a humidifier or dehumidifier. Modbus interface
	F2000PC-TH-K02-(A)/(B)/(C)	Detect and display RH&Temp. 2 ON/OFF relay outputs to control a humidifier/ dehumidifier and a cooling/heating device. Modbus interface.
Options for Above Models		
Options	Back light-**EL**	Blue back light displaying
	Remote receiving-**R**	Remote control humidity with the infrared hand held controller

□ Specifications

Power supply	230VAC、110VAC、24VAC/VDC selectable in the order
Output	One or two Max. 5A relay/each for the On/Off output
Displaying	LCD
External sensor connection	Typical 2m, 4m/6m/8m selectable
Net weight	280g
Dimensions	120mm(L)×90mm(W)×32mm(H)
Mounting standard	Wall mounting in the wire box of 2"×4" or 65mm×65mm

Sensor spec.	Temperature	Humidity
Accuracy	±0.5℃ (20℃~40℃)	±3.5% RH (20%-80%RH), 25℃
Measuring range	0℃~60℃	0~100%RH
Display resolution	0.1℃	0.1%RH
Stability	<0.04℃/year	<0.5%RH/year
Storage environment	0℃-60℃, 0%~80%RH	

45mm

120mm

External RH&Temp. sensor
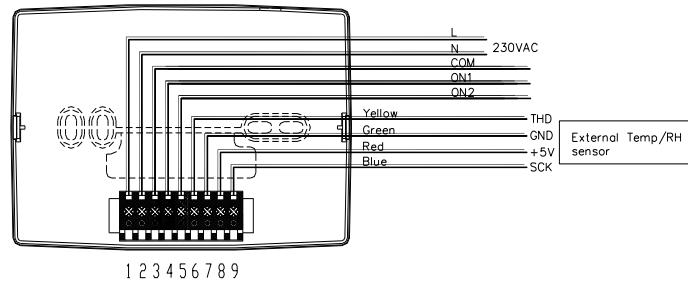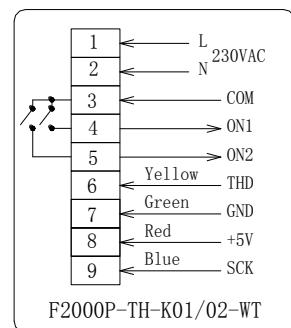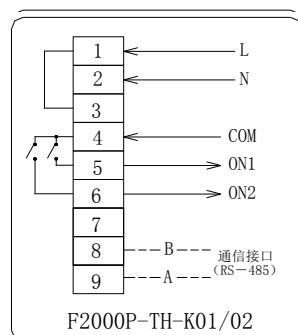
Handle remote controller **(R)**

□ **Wiring Diagrams**

F2000P-TH-K01/K02
F2000PC-TH-K01/K02

F2000P-TH-K01/K02-WT/TSM

	L
1	
2	N
3	
4	COM
5	ON1
6	ON2
7	
8	---B--- 通信接口
9	---A--- （RS-485）

F2000P-TH-K01/02

	L 230VAC
1	
2	N
3	COM
4	ON1
5	ON2
6	Yellow THD
7	Green GND
8	Red +5V
9	Blue SCK

F2000P-TH-K01/02-WT

L
N 230VAC
COM
ON1
ON2

Yellow THD
Green GND
Red +5V
Blue SCK

External Temp/RH sensor

1 2 3 4 5 6 7 8 9

connection figure of F2000P-TH with the external sensor

130.00

TONGDY

power ▼ set ▲ switch

90.00

External Temp/RH sensor

2/4/6/8M