

## THP-Hygro16/THP-HygroPro

### High-Power Humidity Controller

#### CE-Approval

#### Features

- ◆ Designed to control ambience relative humidity with temperature monitoring
- ◆ Combined both humidity and temperature sensors seamlessly with the digital auto compensation
- ◆ External sensors insure humidity and temperature measurements correction with high accuracy
- ◆ White backlit LCD display both actual humidity and temperature
- ◆ Can control a humidifier/dehumidifier or a fan directly with max. 16Amp Outlet
- ◆ Both plug-and-play type and wall mounting type selectable
- ◆ Provide the special smart hygrostat THP-HygroPro with mould-proof control
- ◆ Compact structure for more applications
- ◆ Convenient three small buttons for setup and operation
- ◆ Set point and work mode can be preset
- ◆ CE-Approval



#### Typical Applications

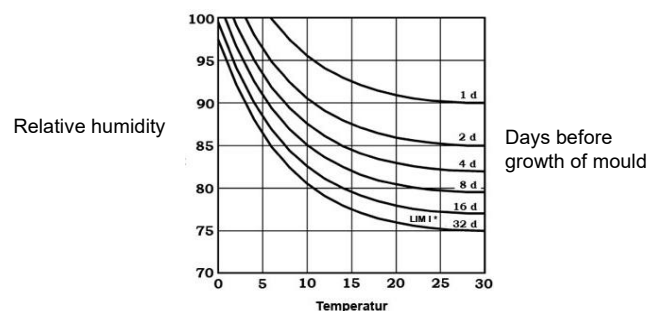
- ◆ High end HVAC systems
- ◆ Residential humidifying or dehumidifying control
- ◆ Libraries and laboratories
- ◆ Mould-proof auto control for above places
- ◆ Other places where need to control relative humidity

#### The smart hygrostat THP-HygroPro with mould-proof Control

##### Smart Control with Two Modes Selectable

##### Mode A: Mould-proof in auto control.

As you can see from the right diagram which indicates the relationship between a certain RH and the days before growth of mould at a certain temperature degree. The THP-HygroPro is designed to make the days before growth of mould up to be 32 days. With the smart auto control software, the hygrostat will control the relay output automatically to the dehumidifier to maintain comfortable air quality with the right humidity level.



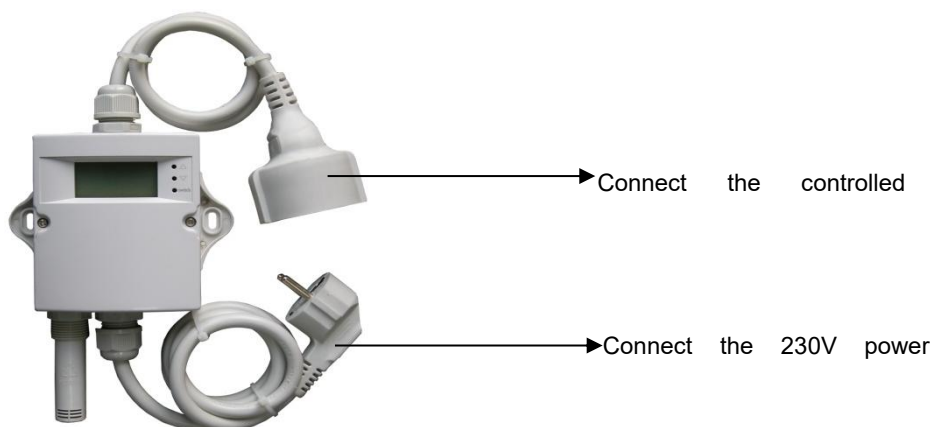
Mode B: Manual humidity level setting

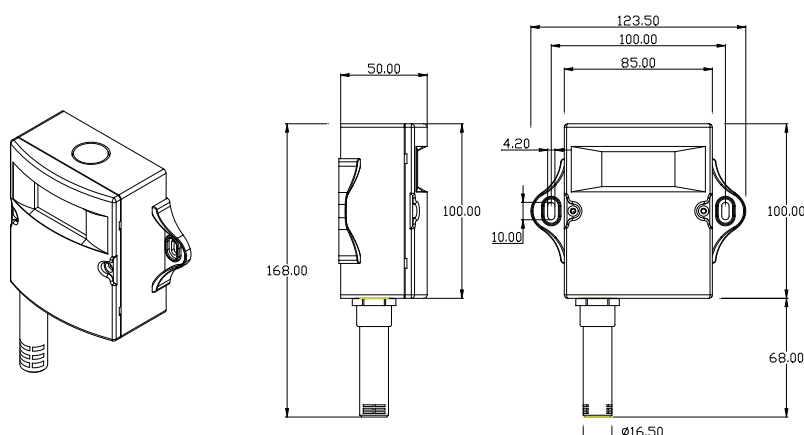
If you don't want to use above auto humidity control, you may preset the humidity level by yourself.

## Specifications

	Temperature	Humidity
Accuracy	$\pm 0.4^{\circ}\text{C}$	$\leq 3\%\text{RH}$ (20%-80%RH)
Measuring range	$0^{\circ}\text{C}\sim 60^{\circ}\text{C}$ selectable $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$ (default) $-20^{\circ}\text{C}\sim 80^{\circ}\text{C}$ selectable	0 -100%RH
Display resolution	$0.1^{\circ}\text{C}$	0.1%RH
Stability	$\pm 0.1^{\circ}\text{C}$	$\pm 1\%\text{RH}$ per year
Storage environment	$10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ , 10%RH~80%RH	
Connection	Screw terminals/ wire diameter:1.5mm <sup>2</sup>	
Housing	PC/ABS fireproof material	
Protection class	IP54	
Output	1X16Amp dry contact	
Power supply	220~240VAC	
Power cost	$\leq 2.8\text{W}$	
Mounting type	Plug-and play or wall mounting	
Power plug and socket	European standard for plug and play type	
Dimension	95(W)X100(H)X50(D)mm+68mm(extend outside)X $\varnothing 16.5\text{mm}$ (not including cables)	
Net weight	690g	

## Dimensions & Wall Mounting





## Model Information

Name	Model	Description
Hygrostat with Plug-and-Play Type	THP-Hygro16-pp	1X dry contact output for a humidifier/dehumidifier or a fan with max. 16A load. Humidity and temperature monitoring with white backlit LCD
Hygrostat with Wall Mounting Type	THP-Hygro16	1X dry contact output for a humidifier/dehumidifier or a fan with max. 16A load. Humidity and temperature monitoring with white backlit LCD
Smart Hygrostat with Mould-proof Control Plug-and-Play Type	THP-HygroPro	Mould-proof humidity controller with 1X dry contact output for a dehumidifier. Max. 16A load. Plug-and play type. Humidity and temperature monitoring with white backlit LCD

## Shipping Information

Indiv. Ctn. Dim	185mm×130mm×115mm
Master Ctn. Qty	12 (for plug-and-play type)
Master Ctn. Dim	45cm(L) ×34cm(W)×37cm(H)
Master Ctn. Net Wt.	15Kg