Honeywell

HT9610P0100

Room Unit of Communicating Fan Coil Thermostat
2-pipe/4-pipe fan coil control

PRODUCT DATA

- Stylish and elegant blue backlight
- 2-pipe/4-pipe integrated into one unit with easy configuration
- Big LCD display with English and icons
- Manual or automatic fan speed selection
- Onboard or Remote temperature sensor option
- Cycle per Hour (CPH) function
- Adjustment of display room temperature
- Temperature unit either ℃ or ℉
- User setting can be kept when power off
- Lock or unlock keys or part of keys in Installer Set-up
- Heat and cool setpoint limitation for energy saving

APPLICATION

HT961 communicating thermostats are designed for application of 3-speed fan and valves in fan coil system and available in BACnet MS/TP protocol. HT961 Series thermostats can be easily integrated into a building automation system based on the BACnet MS/TP platform.

HT961 communicating thermostat adopts two-piece solution consisting of two devices: driver and room unit. Room unit provides user interface and control algorithm for thermostats. This document contains specification of room unit. For driver, please refer to the data sheet of “HT961xD Series Driver of Communicating Fan Coil Thermostat”.

FEATURES

- Two-wire connection for both power and communication
- Slim design, direct installation on 86 size box

TECHNICAL SPECIFICATIONS

Power	Communicating lines
Control algorithm	PI, On/off output
Accuracy	± 1 ℃ @ 21 ℃
Setpoint range	10 ~ 32 ℃
Display range	0 ~ 37 ℃
Installation	Panel mounting or Installed on 86×86 mm or US 2×4 inch. junction box
Protection class	IP 20
Operation temperature	0 ~ 49 ℃ (32 to 120℉)
Shipping temperature	-29 ~ 55 ℃ (-20 to 130℉)
Relative humidity	5 ~ 90 %
Action Type Action	type 1
Pollution Degree	2
Rated impulse Voltage	2500V
Maximum Temperature for Relay Wire	155℃
Wire Diameter (Recommendation)	1-1.5mm

Working current for the whole prod 4(3)A
4A: When the load of the thermostat is resistance
3A: When the load of the thermostat is Inductance

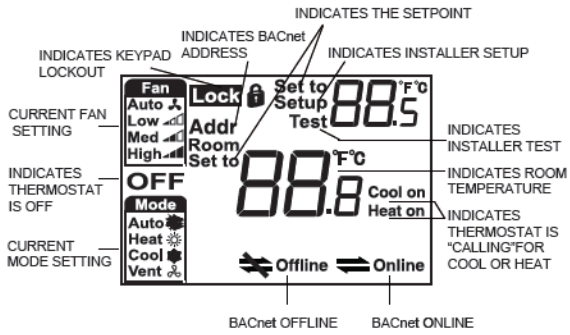
Fan Output
4A: When the load is is resistance
2A: When the load is inductance

MODEL SUMMARY

Model	UI Type	Backlight	Application	Power Supply	Ventilation	Manual/Automatic Fan
HT9610P0100	Horizontal	Blue	FCU on/off 2/4-pipe	Communication Bus	Y	Y

APPEARANCE

LCD DISPLAY



FUNCTION

Valve Control

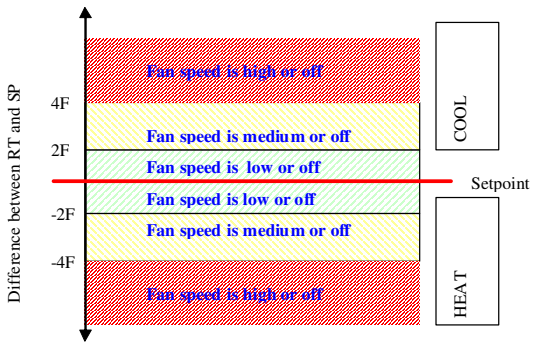
Room unit acquires the room temperature via its integrated sensor or external temperature sensor and maintains the setpoint by delivering on/off valve control commands output.

PRESS THE MODE BUTTON TO SELECT HEAT, COOL, AUTO OR VENT

Fan Operation

PRESS THE FAN BUTTON TO SELECT LOW, MED, HIGH OR AUTO

Fan can be selected as manual or automatic 3-speed operation. In Manual mode, the fan is switched to the selected speed via control outputs of the driver. While in automatic mode, fan speed depends on the difference between room temperature and setpoint, valve will be closed and meanwhile, fan will be closed either.



Fan speed ramping control algorithm

Temperature Display

The displayed temperature can be set to acquired room temperature or setpoint. The setting can be made during Installer Set-Up process.

Room temperature and setpoint can be display simultaneously.

Cycle per Hour (CPH)

In order to get a more accurate temperature control, CPH function may enable the thermostat to open the valve for several times per hour even the temperature is close to setpoint (difference less than ½ P-band). The default value is 4 for heating and 3 for cooling and can be changed in Installer Set-Up process.

Backlight

Any key press will activate the backlight. Backlights will timeout 8 seconds after last key press. When in Installer Set-up and Installer test mode, the backlight will timeout 60 seconds after last key press.

Onboard and Remote Temperature Sensor

HT9610P0100 room unit provides control either depending on the acquired room temperature or the return air temperature. It can be selected in Installer Set-Up process. The model of remote temperature sensor is NTC20K.

Keypad Lock

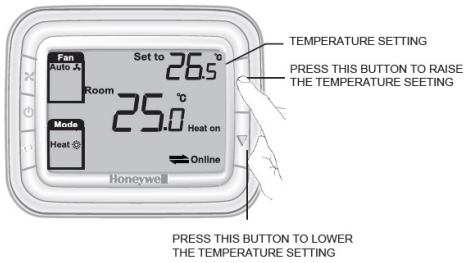
Keypad lock can be set in ISU with default status is all keys available. You may change into mode button locked out, fan and mode buttons locked out, all buttons locked out and all buttons locked out but power button by changing the ISU.

OPERATING MODELS

The following operating modes are available:

Comfort Mode

In comfort mode, the setpoint can be changed by pressing up and down button. Different applications include cool only, heat only and manual heat/cool changeover.



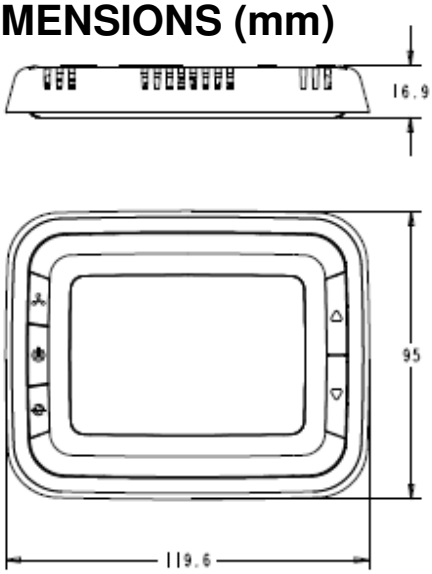
Ventilation Mode

Press mode button to enter ventilation mode. In ventilation mode, no output for valve while the fan will operate according to selected fan speed.

On/Off Mode

Pressing power button can switch between on and off mode.

DIMENSIONS (mm)



Automation and Control Solutions

Honeywell

Honeywell Environmental & Combustion Controls (Tianjin) Co., Ltd.
158 NanHai Road, TEDA
Tianjin, 300457, RPC