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You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL T6580. You'll find the answers to all your questions on the HONEYWELL T6580 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Honeywell
T6580
FAN COIL CONTROLLER
PRODUCT SPECIFICATION SHEET



DESCRIPTION

A pleasing and modern appearance makes the T6580 ideal for living quarter applications, in particular offices and hotels. In all versions, the control is Proportional + Integral (P+I). This ensures accurate temperature control in all operating conditions.

The controller is suitable for mounting on a fan-coil chassis or for wall mounting.

In 2-pipe plants the summer/winter switching can be activated by a central contact, controlled automatically through a connected thermostat or by a sensor installed on the pipe near the fan coil.

There are two pre-set room regulating levels: Comfort and Economy, to which two temperature levels are linked; the selection of which can be made through the room unit or by digital inputs.

The sensor for the temperature regulation is located inside the room unit and is overridden if the optional remote sensor is fitted.

Commands available: set-point configuration knob; fan speed knob; push button for operating mode setting; push button for summer/winter switching (Economy mode and summer/winter switch buttons are not included on the Lite model).

FEATURES

- 2-pipe or 4-pipe fan coil applications
- Installer setup mode allows 11 parameters to be changed easily on-site
- Proportional + integral digital control regulator
- Heating / cooling sequence and supplementary heating with electrical resistance heater
- Electrical resistance / cooling sequence
- Cooling / cooling sequence
- Ventilation only
- Manual or automatic summer / winter switching
- Automatic 3-speed fan control or manual override
- Selectable valve actuators: ON-OFF, PWM
- Actuator voltage: 230 Vac
- Digital inputs: water thermostat, change of season, economy, window contact
- Analogue inputs: room temperature, inlet water temperature
- Regulator voltage: 230 Vac, 50/60 Hz
- Destratification cycle
- Filter clean timer
- CE certification

GENERAL INFORMATION

The T6580 microprocessor controls were designed to regulate heating and/or cooling within a room air-conditioning system. The T6580 regulates the water valves, the fan speed, and the electrical resistance heater (where installed), in 2-pipe and 4-pipe fan coil systems.

Table 1. Ordering codes for the T6580 FCU Controller:

Model	Description
T6580A1008	FCU Controller 2/4 Pipe with SW switch & Economy function
T6580A1016	LITE FCU Controller 2/4 Pipe

1 ENR-H8560UK07 RD



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@@GREEN ON when the RFC is in the SUMMER function mode. @@@@Proceed as follows: In the COMFORT mode: when pressing the SEL3 key, the Mode LED turns on and stays on (comfort). By continuing 5 EN0H8560UK07 R0 RFC BASIC FAN COIL CONTROLLER to press the key, the controller switches to the ECONOMY mode after 5 seconds and the Mode LED blinks for 0,3 seconds ON - 0,3 seconds OFF until the key is released. From the ECONOMY mode: if the SEL3 key is pressed again, the Mode LED blinks for 0,3 seconds ON - 0,3 seconds OFF.

By continuing to press the key for another 5 seconds the controller switches to the COMFORT mode, and the Mode LED will tuDURE The RFC regulator allows manual parameters without the need of a PC. access to the A 30 The above sequence is valid for the configuration of all parameters that are selectable with the SEL0 knob, therefore: Select a parameter by rotating the SEL0 knob, and set its value with the selector knob SEL2. 20 CHECKING THE PARAMETER SETTINGS 10 Honeywell SEL2 SEL3 SEL1 SEL0 LED SUMMER/WINTER L E D F I L T E R LED MODE By simply moving selector knob SEL2 one can also check which value was set in any specific parameter (green LED = the same chosen parameter, red LED = a different parameter). If no controls are touched for two minutes, the controller will revert to normal operating mode. LED MODE RESETTING TO THE DEFAULT VALUES 1. 2. 3. Set the SEL0 knob to + 10 °C. Set the SEL2 knob to position 2. The red LED blinks quickly to indicate that the default parameter table has been chosen. Press the programming key SEL1. The GREEN LED on the device blinks 3 times to indicate that the device is saving the DEFAULT parameter table. Fig. 9 Setting the parameters The SEL0 selector knob allows parameters (from 1 to 10) to be selected, (see parameter table below). The fan speed selector SEL2 allows the value of the chosen parameter to be set.

The SEL1 and SEL3 keys, if pressed simultaneously for 5 seconds, allow access to the "parameter settings mode". 4. 5. 7 EN0H8560UK07 R0 RFC BASIC FAN COIL CONTROLLER 1st LEVEL PARAMETER TABLE The parameters below are the ones that can be directly modified from the controller key pad. PARAMETER No.

Selector Position PARAMETER TO BE SET PARAMETER DESCRIPTION SEL 1 AUTO DEFAULT VALUE COMFORT SET POINT RANGE DEAD BAND TYPE OF PLANT Configuring the COMFORT set point range Defines the Dead Band by 4-pipe plants Type of plant SEL0 KNOB POSITION Selector Position SEL 1 OFF Selector Position SEL 1 1 Selector Position SEL 1 2 Selector Position SEL 1 3 10 1 10-30 12-28 13-27 14-26 15-25 11 2 4 3 2 1 0 12 3 2-PIPE 4-PIPE FAN ONLY CYCLED IN SUMMER / CONTINUOUS IN WINTER 13 4 FAN Defines the fan operating mode in the dead band Defines the type of regulation at output 1 Defines if the window contact is n. o. or n. c. Activate or deactivate the destratification function CYCLED CONTINUOUS CYCLED IN WINTER / CONTINUOUS IN SUMMER 14 15 5 6 TYPE OF OUTPUT WINDOW CONTACT DESTRATIFICATION PWM ACTIVE = CONTINUOUSLY CLOSED ENABLED ON-OFF ACTIVE = CONTINUOUSLY OPEN DISABLED SUMMER / WINTER SWITCHING G + FAN FUNCTION CONSENT 16 7 17 8 WATER TEMPERATURE SENSOR FUNCTION Selecting the NTC probe function for the water temperature FAN FUNCTION CONSENT SUMMER / WINTER SWITCHING WITHOUT PROBE 18 9 SUMMER / WINTER SWITCHING SENSOR READING OFFSET RESET Selecting summer to winter switching Modifies the room temperature sensor reading Resetting the DEFAULT values or the Filter hours Manual Centralized or by NTC probe + 1°C From the room unit 19 10 0 - 1°C + 2°C Resetting the default parameters - 2°C 20 11 Setting the filter hours to zero Other parameters that are listed in the following table can be modified with factory software, though the TTL port. 8 EN0H8560UK07 R0 RFC BASIC FAN COIL CONTROLLER 2nd LEVEL PARAMETER TABLE PARAMETER TO BE CONFIGURED Proportional band °C PARAMETER No 12 PARAMETER DESCRIPTION DEFAULT VALUE RANGE NOTES 13 14 15 16 17 18 19 Defines the temperature range in which the P+I regulation is carried out Defines the value to be added to the summer Economy set point set point and subtracted from the winter set variation point when the room is not occupied This parameter defines the water Winter temperature temperature above which the system switches to the function consent winter mode or enables the fan This parameter defines the water Summer temperature temperature below which the system switches to the function consent summer mode or enables the fan Anti-freeze Room temperature value, below which protection °C the anti-freeze function is activated Dirty filter signal Parameter K value NOT AVAILABLE Valve exercise Enables or disables a periodic valve activation to avoid valve blockage 2 1-5 2 5-10 38 20-60 14 5 - 25 4 0 0 - 10 °C 0 (disabled) 1 20 K · · Disabled Enabled 1 60 x300 HH Disabled 20 21 22 23 24 De-stratification, maximum Defines the fan disabling time fan OFF time during the de-stratification process (minutes) De-stratification, minimum Defines the fan enabling time fan ON time during the de-stratification process (minutes) Fan start delay The fan start delay with respect to (seconds) the heating output activation time Fan start through electrical Defines the time delay between the electrical resistance heater switching on and the fan starting (seconds) Fan stop through electrical Defines the time that the fan overruns after resistance the electrical heater is switched off (seconds) 15 1 1-10 120 0 250 30 0-250 60 0-250 9 EN0H8560UK07 R0 RFC BASIC FAN COIL CONTROLLER ELECTRICAL CONNECTIONS L 1 2 3 10 EN0H8560UK07 R0 RFC BASIC FAN COIL CONTROLLER DIMENSIONS A 30 20 10 Honeywell The T6580 product family and its associated documentation and packaging are protected by various intellectual property rights belonging to Honeywell Inc and its subsidiaries and existing under the laws of the UK and other countries. @@@@For use outside of the scope as described herein, refer to Honeywell for guidance. Honeywell cannot be held responsible for misapplication of the product(s) described within this document. Manufactured in the UK, for, and on behalf of the Environment and Combustion Controls Division of Honeywell Technologies Sàrl, ACS-ECC EMEA, Z.A.

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