

# TB3 SERIES COMMUNICATING THERMOSTATS

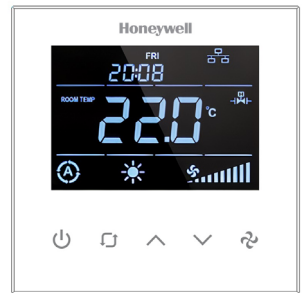
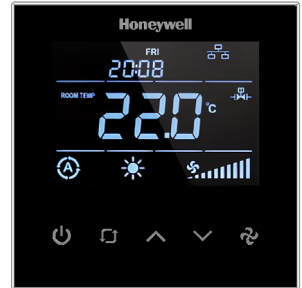
## Fan Coil Unit Communicating Thermostats

The TB3 Series Communicating Thermostats for Fan Coil Units monitors and controls indoor comfort.

TB3 Series Fan Coil Thermostats are used in individual rooms or zones in buildings. It is designed for two and four-pipe fan coil units. TB3 Series has one universal input as an external sensor (NTC10k) or open/close contact input, three relay fan outputs, two relay valve outputs (TB3140), two analogue valve outputs (TB3240), and one EIA-485 (BACnet MS/TP). It controls the fan coil unit depending on the internal room sensor or external return sensor temperature.

## FEATURES AND BENEFITS

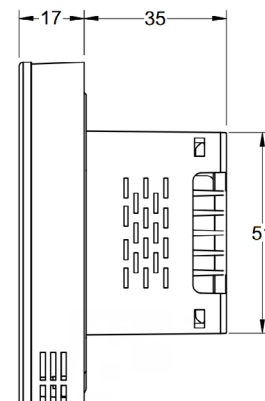
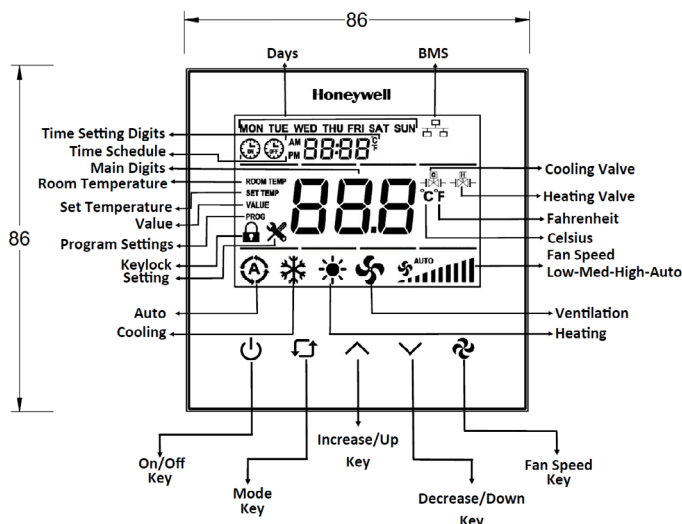
- BACnet MS/TP compliant, BTL listed FCU thermostat for easy integration to Building Management System.
- BACnet Change of Value (COV) support through the network, supports easy monitoring and control from Building Management System.
- On/Off (TB3140) and Modulating (TB3240) Valves Control, meet most building controls requirement.
- Automatic heating/cooling changeover via immersion sensor gives added flexibility.
- Manual or automatic 3-speed fan control provides added options to save energy.
- Auto, Heat, Cool and Ventilation modes gives added flexibility.
- Universal input for external sensor or windows/energy saving contact.
- Adjustable High and & Low setpoint limits gives added flexibility.



## STYLISH DESIGN FOR EASY CONTROL

- Modern, sleek design
- Black and white color options
- Capacitive touch buttons with a white backlit LCD display
- Ease of use through intuitive display settings
- Fits any British Standard (UK/Middle East) wall-mounted installation box

## THERMOSTAT OVERVIEW AND DIMENSIONS



# PRODUCT SPECIFICATION

## DISPLAY

PARAMETER	SPECIFICATION
Display Type	LCD 62 x 44 mm
Backlight	White LED
Buttons	5 integrated capacitive touch areas
Fascia	Tempered glass

## COMMUNICATION

PARAMETER	SPECIFICATION
Communication	1 x EIA-485(BACnet MS/TP)

## ELECTRICAL

PARAMETER	SPECIFICATION
Power Supply	TB3240B/TB3240W : 24V AC/DC, 50/60 Hz TB3140B/TB3140W : 100~220 VAC, 50/60 Hz
Power Consumption (Display ON)	Max ~3.0 VA
Terminal Size	For Power: Up to 16 AWG / 1.5 mm <sup>2</sup> For RS485 and NTC: Up to 17 AWG / 1 mm <sup>2</sup>
Battery for Real Time Clock (RTC)	Lithium CR1220 3.3 V

## SENSORS AND INPUT

PARAMETER	SPECIFICATION
Temperature Accuracy	1 °C (1.8 °F)
UI Input Measuring Range	-10 °C to 100 °C (14 °F to 212 °F)
Inputs	1 Universal Input (NTC 10K or Dry Contact)
Outputs	3 Digital Outputs (3 Relay*) 2 Relay Valve Outputs (2 Relay*) (TB3140) 2 Analog Outputs (2 x 0-10 V) (TB3240) (* ) 5A for resistive loads and 2A for inductive loads

## ORDERING INFORMATION

PART NUMBER	TB3240B/U	TB3240W/U	TB3140B/U	TB3140W/U
Digital Outputs (Relay) Fan Control	3	3	3	3
Analog Outputs (0-10 V) Valve Control	2	2	0	0
Relay Output Valve Control	0	0	2	2
Universal Input	1	1	1	1
Colour	Black	White	Black	White
Power	24 V AC/DC, 50/60 Hz	24 V AC/DC, 50/60 Hz	220 V AC, 50/60 Hz	220 V AC, 50/60 Hz

Find more information on TB3 communicating Thermostat at <https://hwall.co/tb3>.



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31-00575-01 | Rev. 11-22



## OPERATING ENVIRONMENT

PARAMETER	SPECIFICATION
Operating Temperature Range	10 °C to 55 °C (50 °F to 131 °F)
Temperature Setting	5 °C to 40 °C (Adjustable), (41 °F to 104 °F (Adjustable))

## OTHER SPECIFICATIONS

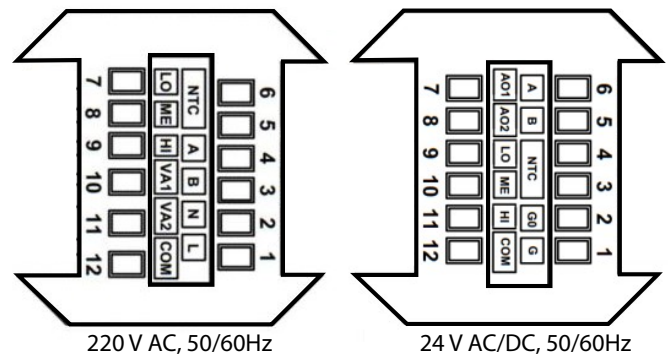
PARAMETER	DESCRIPTION
IP Rating	IP30
Terminal Connections	Rising cage clamp, Screw terminal
Standard and Compliance	CE, RoHS, BTL certified (B-ASC)
Material of Casing	Flame retardant ABS and Polycarbonate (PC)

## INSTALLATION DETAILS

### WEIGHT AND DIMENSIONS

PARAMETER	SPECIFICATION
Dimension (L x W x D)	86 x 86 x 52 mm
Weight	TB3140 : 208 grams TB3240 : 207 grams
Minimum depth of Wall box	52 mm
Mounting	Flush Mounted (Standard EU box)

## TERMINAL WIRING



220 V AC, 50/60Hz

24 V AC/DC, 50/60Hz