



TBH300

Energy Management System Kits

Save Energy Consumption on Unoccupied Hotel Rooms

Supporting hoteliers in their efforts to increase energy efficiency and reduce energy consumption without sacrificing guest comfort in hotel rooms, the TBH300 Thermostat is offered with occupancy and door/window sensors as a kit. The TBH300 Thermostat Energy Management System (EMS) kit can be installed as a standalone energy management system or integrated with a Property Management System (PMS).

By installing the TBH300 EMS Kit in hotel rooms, hoteliers will see a decrease in energy consumption and increased energy cost savings within a few electric billing cycles.

For convenient property deployment, the TBH300 Thermostat and sensors can be paired remotely by the installer using the iOS/Android mobile app.

Energy Management System

For added guest comfort, during the check-in process the connected energy management system can be turned on by staff at the reception/front desk for an improved welcoming guest experience. The TBH300 Thermostat switches to the 'Unoccupied' mode when the room is vacant. The cool and heat temperature setpoints can be configured on the TBH300 Thermostat. The time in which the hotel room remains vacant for the TBH300 Thermostat prior to switching modes and the unoccupied setpoints can be configured via the installer mobile app.



White and Black versions available

TBH300 EMS Kit Benefits



Central control



Energy management



Easy installation and sensor pairing



Multiple applications for hotel rooms, college dorms, MDUs, etc.

Features

- Online or offline energy management feature with wireless sensors
- Sensor and TBH300 configuration over installer mobile apps
- ZigBee 3.0 for energy management system integration
- BLE 4.2 for installer mobile apps
- Long range and long battery life sensor protocol (via ClearSky technology)
- Large LCD display with backlight
- A 'Close Window' or 'Close Door' message displays on the LCD screen when the energy management system is on in an occupied room and either the window or door is opened

TBH300 EMS Kit Configurations

- **EcoBasicRoom**
 - o 1 TBH300 Thermostat
 - o 1 Occupancy Sensor
 - o 1 Door/Window Sensor
- **EcoStandardRoom**
 - o 1 TBH300 Thermostat
 - o 1 Occupancy Sensor
 - o 2 Door/Window Sensor
- **EcoExtendedRoom**
 - o 1 TBH300 Thermostat
 - o 2 Occupancy Sensor
 - o 1 Door/Window Sensor

Installer Mobile App

The installer mobile app provides a step-by-step process for pairing the TBH300 with the occupancy and door/window sensors via BLE. The installer can create multiple profiles per property that can be customized per room type. The app allows for the installer to easily duplicate profiles and room types and can pre-pair each kit prior to on-property installation.



Certified | Easy thermostat configuration repeatedly for multiple room(s)



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Specifications

- EcoBasicRoom Kit Part Numbers:

White Thermostat & Sensors: J02017HA00-00003

Black Thermostat & Sensors: J02017HA00-00006

- EcoStandardRoom Kit Part Numbers:

White Thermostat & Sensors: J02017HA00-00004

Black Thermostat & Sensors: J02017HA00-00007

- EcoExtendedRoom Kit Part Numbers:

White Thermostat & Sensors: J02017HA00-00005

Black Thermostat & Sensors: J02017HA00-00008

Dimensions: 126.6 x 118.6 x 24.5 [mm]

User Interface

- Displays stage of cooling or heating + setpoints
- Auto mode
- Supports backlight timer adjustment
- Awake and sleep modes
- On-screen setup of HVAC type, fan type, changeover type for HP systems, F/C mode and sensor calibration
- 4 capacitive touch keys (up/down, fan, mode) cap sensor touch key
- Fixed format display with 7 letter message bar and backlight

24V DC Power

24V operation requires both 24VAC (R) and 24VAC common (C) wires from the HVAC System

Thermostat Sensors

- Temperature
- Humidity

Fan

- 3 heat, 2 cool, 3 speed fan with 5 relay
- Fan can be configured on, off and auto (controlled by HVAC)

HVAC Multi-Stage Availability

- Standard gas/electric HVAC systems:
2-stage heating, 2-stage cooling

Wiring Requirements

- Uses standard thermostat connections (C, RC, RH, W1, W2/0, Y1, Y2, G) - 18 AWG

Compliance

- United States: FCC Compliant to CFR47, Part 15B
- Canada: Industry Canada RSS 210, Issue 8