INTELLIGENT COMMERCIAL BACnet/ EnOcean/LoRaWAN ENABLED WIRELESS THERMOSTAT



MODEL NE800

OVERVIEW

The Titanium NE800 is a sophisticated, intelligent commercial and industrial BACnet / EnOcean / LoRaWAN enabled wireless thermostat. It is a multi-stage thermostat with up to 3 heat / 2 cool which controls a comprehensive range of heating and cooling units, such as rooftop units, heat pumps, PTAC units, unit heaters with different energy sources, and 2-pipe and 4-pipe fan coil units. In addition, it controls a wide range of equipment such as humidifier, dehumidifier, damper, and economizer.

The NE800 Thermostat is a full featured thermostat with versatility to meet virtually any application need. It includes the EnOcean Alliance ecosystem of sensors for additional and remote environmental monitoring. The thermostat can be operated locally, connected to a BACnet BMS, or managed from the cloud.

TITANIUM CLOUD PLATFORM

For enterprise management, the NE800 thermostat connects to the Titanium cloud platform for managing many locations and global deployment. It has advanced software controls and capabilities for energy savings such as demand response, real-time monitoring, real-time data visualizations, and analytics. It has the most advanced remote capabilities of any thermostat with remote configuration, remote commissioning, remote multi-lockable buttons (individual or groups), versatile user-defined alerts, and incident reporting.

The Titanium cloud platform provides easy to use, unlimited scheduling options for the most complex heating and cooling situations. Titanium delivers software solutions which enables it to deliver features and capabilities difficult to achieve using hardware.

TITANIUM
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HARDWARE FEATURES

- Backup battery for RTC (Real-Time Clock)
- 2 external temperature sensor inputs (can include return and supply air)
- 6 digital outputs
- Multi-stage with up to 3 heat, 2 cool and 2 fan outputs
- Freeze/Heat protection
- Anti-cycling protection, compressor protection
- Multi-level lockable buttons
- EEPROM permanently retains configuration
- Extra digital output for humidifier/dehumidifier/damper/economizer
- Auxiliary heat for fan coil
- Dual set point
- Built-in temperature and humidity sensor

SOFTWARE FEATURES

- BACnet/EnOcean/LoRaWAN enabled thermostat
- Fully cloud enabled Remote Commissioning
- Capable of operating stand-alone
- EnOcean Standard Remote Commissioning
- Acts as an hub to cloud for local sensors such as Occupancy, Window, Keycard
- Configurable settings such as color display, brightness, repeater, set point, button locks, system mode, fans speed, and screen time sync by cloud commands
- Displaying outdoor temperature sent by cloud
- Averaging wireless temperature sensors
- Reporting external temperature to cloud
- Report unauthorized user button touch to cloud

TECHNICAL SPECIFICATIONS

POWER SUPPLY	20-30 VAC 50/60 Hz
POWER CONSUMPTION	Less than 1 VA (excluding outputs)
SETPOINT RANGE	50F to 104F (10C to 40C)
INPUTS	Two 10Kohm Type II NTC
OUTPUTS	24VAC, 2A max
EXTERNAL PIPE SENSOR RANGE	32F to 212F (0C to 100C)
TEMPERATURE ACCURACY	+/- 0.4C (0.8F)
HUMIDITY ACCURACY	+/- 2%
TEMPERATURE CONTROL RANGE	50 to 90 F (10 to 32 C)
OPERATING TEMPERATURE RANGE	0 to 120 F (-18 to 49 C)
STORAGE TEMPERATURE RANGE	-20 to 130 F (-29 to 55 C)
DIMENSIONS	4.0” W x 4.8” H x 1.0” D

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