Internet Programmable Thermostat with Humidity (TS200H)
wireless management and control

Internet Programmable Thermostat with Humidity

Overview

Pelican's wireless Internet Programmable Thermostat with Humidity is an affordable alternative to the wired HVAC building controls of the past. Utilizing standard thermostat to HVAC unit wiring, Pelican is able to offer a retrofit friendly thermostat that is affordable to both purchase and install in any commercial building. The Pelican thermostat is able to control up to 3 stages heat, 2 stages cool for Heat Pump systems and 2 stages heat, 2 stages cool for Conventional. It will also control a humidifier, de-humidifier, and/or de-humidify using the cooling coil. The thermostat comes with an innovative 3-wire module that allows for installations in limited wiring situations. The easy to understand, large display, shows current temperature, humidity, and active settings. Intuitive buttons allow you to set the desired temperature for heating, cooling, and fan modes. It also has a 15 second light button to illuminate the display panel for night viewing. And yes, our thermostat has Auto change-over. Initial thermostat configuration and ongoing scheduling management is done through your own Pelican web-app. Our web-app provides you with an intuitive control screen for managing multiple thermostats. In addition, historical temperature and HVAC usage data can be reviewed at any time. Pelican's wireless Internet Programmable Thermostat continuously monitors the health of your HVAC systems. This advanced feature will send an immediate maintenance alert to authorized personnel via email or test message at the first sign of a problem.

TS200(H)

Key Customer Benefits

- Internet Programmable
- Wireless Communication
- Simple Installation
- Retrofit Friendly
- Advanced maintenance Alarm Notification via email or text message
- User Friendly Interface
- Real-time monitoring and Analytical reporting
- Increase in Comfort
- Energy Savings
- Decrease Maintenance and Operation costs
- Meets 2014 Title 24 Specifications
- 24/7 Email Technical Support
- Monday thru Friday, 8am-5pm PST Live Support
- 5 Year Warranty

Features

- Internet Programmable
    - 7 day scheduling with up to 12 set points per day
    - Intuitive web based app
    - Set-up via the web based app
- Wireless Communication
    - Wireless to Pelican's Gateway (GW200)
    - Automatically connects
    - Repeats and Routes wireless signal
- Web Based Control
    - Works with all smartphone browsers
    - Works with all tablet browsers
    - Works with PC browsers: Firefox, Safari, Chrome, Internet Explorer 9+

- Easy Installation
    - Standard industry color coded wiring
    - Uses existing wires from replaced thermostat
    - Special limited wiring capability allows installation with as few as 3 wires to control multi-stage HVAC systems
    - Self connecting wireless communication
    - Guided web-based set-up instructions
    - Special limited wiring capability allows installation with as few as 3 wires to control multi-stage HVAC systems
    - Compatible with new installations, replacement installations, and upgradeable pre-wired systems

Features Cont.

- Energy Efficiency
    - Adjustable scheduling for occupied and unoccupied hours
    - Calculated energy costs reporting
    - Historical trend data for accurate scheduling and temperature control settings
    - Remote management and diagnostics
    - Very accurate temperature detection for proper conditioned management

- Thermostat Settings
    - 7 day programming for up to 12 set points per day
    - Heat Pump 3 Heat and 2 Cool
    - Conventional 2 Heat and 2 Cool
    - Scheduled Fan setting auto/on
    - Circulating Fan mode
    - Settable temperature limits

- Thermostat Keypad
    - Increase and Decrease temperature settings
    - Increase and Decrease humidity setting
    - Shows both set-point and room temperature
    - Auto-change over
    - Light button
    - Can limited temperature setting range
    - Lock and unlock keypad via web-based app (if the Internet goes down keypad unlocks automatically)

- Humidity Settings
    - Dehumidification and Humidification control
    - Cool only dehumidification setting
    - Auto-change over
    - Humidity dead band protection

Specifications

Compatibility

- Compatible with most 24VAC gas, electric, or oil heating and cooling systems
- Conventional and Heat Pump compatible

Electrical

- Power - hardwire 24VAC; 50mA
- Voltage - 23-30VAC
- Heat current – 1.0 A running
- Cool current – 1.0 A running
- Fan current – 1.0 A running
- Humidification current – 1.0 A running
- Dehumidification current – 1.0 A running

Wiring

- Conventional Terminals
  R, RC, W, W2, Y, Y2, G, C, Dh, H
- Heat Pump Terminals
  R, RC, O/B, AUX/E, Y, Y2, G, C, Dh, H

System Regulation and Protection

- 4 minute compressor short cycle protection
- Temporary program override
- Auxiliary or Emergency Heat
- Keypad lockout
- Humidity dead band protection

Thermostat Range

- Setting Temperature Range – heat: 40˚F to 90˚F (4.5˚C to 32˚C), cool: 50˚F to 99˚F (10˚C to 37˚C)
- Setting Humidify Range – 10 to 80%
- Setting Dehumidify Range – 20 to 90%
- Differential Temperature – ± 0.5 F (± 0.25 C)
- Operating Humidity Range (%RH) – 5 to 90% RH, non-condensing

Size

- Dimensions (in.) H 3.5" X W 5.875" X D 1.5"
- Dimensions (mm) H 89 X W 150 X D 38
- Mounting – Horizontal
- Display Size – 4 square inchs

assembled in USA designed in the

PelicanWirelessSystems

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