PR LON



Datasheet

Humidity Controller (PL-C1050-HU)

Description

The Prolon C1050 HU humidity controller is designed to control the relative humidity in a room or duct. Both humidification and dehumidification sequences are available. The built-in microprocessor offers precise digital control to maximize performance. The available control sequences are fully configurable, either locally or remotely with free software. The C1050 HU uses proportional-integral (PI) control loops to optimize humidity control and offers a variety of functions such as outdoor temperature reset for the humidification set point, unoccupied mode set point offsets, safety limits and more.

Features

- Humidification setpoint varies according to the outside temperature
- Stand-alone or networked (up to 127 nodes)
- Outside temperature and proof of fan data can be received through the network
- Fan restart sequence during unoccupied mode available when networked
- Remote configuration and visualization with FREE Prolon Focus software
- Proportional-integral (PI) control loops maximize performance
- 2 digital outputs and 1 analog output equipped with resettable fuses
- Configurable sequence for supply humidity modulating upper limit
- Configurable dehumidification sequence activated by digital output or network communication to rooftop controller

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2
- Power: 2 VA (consumption), 32 VA (input)
- Inputs: Outside air thermistor 10K
 Return/room humidity 0-5 / 0-10 VDC
 Supply humidity 0-5 / 0-10 VDC
 Proof of fan dry contact
- Digital outputs: 2 triac outputs, 10-30 VAC source or sink, 300 mA max (resettable fuse)
- Analog output: 1 output 0-10 VDC / 2-10 VDC, 40 mA max (resettable fuse)
- Indication lights (LED): State of each output / Communication / Power / State of microprocessor
- Microprocessor: PIC18F6722, 8 bits, 40 MHz, 128KB FLASH memory
- Casing: Molded ABS, UL94-HB
- Communication: Modbus RTU (RS485), up to 127 nodes
- Baud Rates: 9600, 19200, 38400, 57600, 76800, 115200
- Connection: Removable screw-type terminal blocks (max 16 AWG)
- **Dimensions**: 6.2" x 5.2" x 2.5" (157mm x 132mm x 64mm)
- Weight: 0.85 lbs (0.39 kg)
- Environment: -4 to 122 °F (-20 to 50 °C) Non-Condensing
- Certification: UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B

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