PR LON



Datasheet

Single-Zone Rooftop Controller (PL-M2000-RTUS)

Description

The M2000 RTUS rooftop controller is designed to control a variety of different rooftop units or HVAC air treatment equipment. The on-board microcontroller offers precise digital control to maximize performance. The available control sequences are fully configurable, either locally or remotely, using free software. The M2000 RTUS uses PI (Proportional-Integral) control loops to optimize HVAC management and offers a variety of functions such as economizer, preheating, CO2 levels, dehumidification, static pressure control and more.

Features

- Designed for unitary systems using a single space temperature sensor
- Internal clock with configurable schedules and calendars
- A manual/off/auto switch for each of the eight outputs
- Remote monitoring and configuration with FREE Prolon Focus software
- Stand-alone or networked (up to 127 nodes)
- Proportional integral (PI) control loops maximize performance
- 5 digital outputs and 3 analog outputs equipped with resettable fuses
- Built-in protection sequences with configurable temperature limits and minimum delays
- Control up to 3 stags of heating
- Control 2 stages of cooling and up to 8 stages once coupled with a FLX controller
- · Configurable unoccupied mode sequences
- Demand controlled ventilation (DCV) and dehumidification sequences available.

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2
- Power: 5 VA (consumption), 40 VA (input)
- Inputs: 9 configurable analog inputs (outside temp / return / supply / mixed air / room, dry contact for clogged filter / schedule override / proof of fan / room setpoint / CO2 levels / static pressure / auxiliary temp). Input signals (thermistor / dry contact / 4-20mA / 0-5 VDC / RH%) individually configurable for each input
- Digital Outputs: 5 triac outputs, 10-30 VAC source, 300 mA max (resettable fuse)
- Analog Outputs: 3 x 0-10 VDC outputs, 40 mA max
- 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) and RJ45 modular jacks
- **Dimensions**: 5.39" x 4.41" x 2.25" (137mm x 112mm x 57mm)
- Weight: 1.05 lbs (0.48 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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