



AZC-M2000-RTU

ROOFTOP CONTROLLER

DESCRIPTION

The AZC-M2000-RTU 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 AZC-M2000-RTU 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. The M2000 RTU also acts as a Master controller when connected to a AirZoe network.



FEATURES

- Internal clock with configurable schedules and calendars
- A manual/off/auto switch for each of the eight outputs
- Remote monitoring and configuration with FREE AirZoe 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 stages of heating and 4 stages of cooling
- Configurable unoccupied mode sequences
- FlexiZone system facilitates multiple zone management by evaluating the average weighted demand of the zones using customized groups
- Demand controlled ventilation (DCV) and dehumidification sequences available.

TECHNICAL SPECIFICATIONS

- **Supply:** 24 VAC \pm 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 oF (-20 to 50 oC) Non-Condensing
- **Certification:** UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B

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