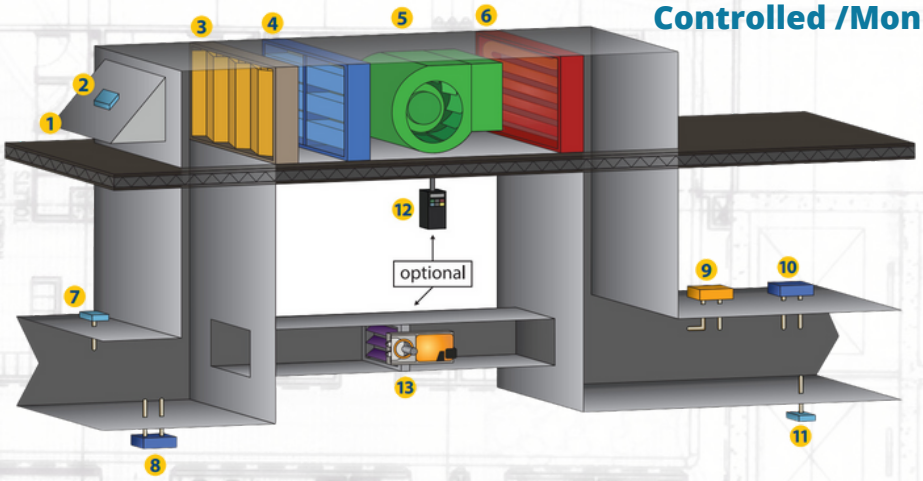
Single-Zone Rooftop Control Panel

Our rooftop controllers are designed to monitor and control standard packaged rooftop units, split systems and air handling units. Perfect for use of units up to 25 tons of cooling. Also adaptable to units up to 60 tons of cooling.

The **AZPL-RTU-M** 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 configured via Air Zoe engineering staff before shipment. (Optional on site and remote programing & system monitoring.)

The AZPL-RTU-M 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.

Controlled /Monitor with a AZPL-RTU-M



1. Economizer
2. Outside Air Temperature
3. Filter
4. Cooling Coils
5. Fan
6. Heating Coils
7. Return Air Temperature
8. CO_2 Sensor
9. Fan Status
10. Duct Static Pressure Transducer
11. Supply Air Temperature
12. Variable Frequency Dive
13. Bypass Damper

Features:

Pre-wired industrial control panel equipped with clearly marked terminal blocks and fuses.
Remote monitoring and configuration option.
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 and Hand/Off/Auto switches.
Built-in real time clock can run standalone schedule up to 4 periods per day, 7 days per week, plus holiday calendar.
Clock stays accurate for up to 10 days without power.
Highly customizable MRTU-S control sequences with protective limits, delays, and interlocks.
All digital outputs are isolated with relays that are built into the panel.
Onboard LEDs allows for quick diagnostics of power, communication, and operation.
Certification: UL916 Energy Management Equipment.
Environment: -4 to 122 °F (-20 to 50 °C) non-Condensing.
CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B.

Technical Specifications:

Supply: 24 VAC ±10%, 50/60 Hz, Class 2
Power: 5 VA (consumption), 40 VA (input)
Overcurrent Protection: Disconnect-Style Slo-Blo fuse (3A @ 250 VAC), with additional replacement fuse included.
Inputs: 9 analog inputs configurable (thermistor / dry contact / 4-20mA / 0-5 VDC / 1-5 VDC) individually configurable for each input.
Digital Outputs: 5 triac outputs, 24 VAC source, 300 mA max (resettable fuse). All digital outputs are isolated by relays in panel.
Analog Output: 3 outputs 0-10 VDC / 2-10 VDC / 0-5 VDC / 1-5 VDC, 40 mA max (resettable fuse).
Indication lights (LED): State of each output / Communication / Power / State of microprocessor
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: 12.25" x 16.25" x 6.25" (311mm x 403mm x 159mm)
Weight: 18.8 lbs. (8.53 kg)

Also Available: Multi-Zone Rooftop Controller

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