

Refrigerant and Gas Detection Panel



The **AZP-RGD-M** Control Systems have inputs and outputs that can be individually configured for use in various refrigerants and other gas sensing applications. Inputs will accept a variety of common signal types and can be named by the user. Outputs can then act based upon local inputs and/or data received from the network; this allows for enhanced sequencing, flexibility, and functionality within a the garage control system.

Ammonia, Carbon monoxide, Carbon dioxide, Chlorine, Ethylene, Ethylene oxide, Formaldehyde, Hydrogen, Hydrogen fluoride, Hydrogen sulfide, Nitric oxide, Nitrogen dioxide, Oxygen, Ozone, Sulfur dioxide, Ethanol, Dimethyl ether, Methanol, Methane, Propane, Hydrogen, TVOCs, Refrigerants



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 \pm 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)