



# AZP-GES

## GARAGE EXHAUST SYSTEM

### DESCRIPTION

The AZP - Garage Exhaust System have inputs and outputs that can be individually configured for use in various CO /No2 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 the garage control system.

### INPUTS MAY BE CONFIGURED TO GAS LEVELS IN PARTS PER MILLION (PPM)

- Input signals include 10k type 3 thermistor, dry contact, 4-20mA, 0-20mA, 0-5 VDC, 1-5 VDC, 0.5-4.5 VDC
- Configurable names and display options for each input and output
- Configurable scales for pressure and gas inputs accommodates any sensor
- Selectable facets for dry contact inputs
- Outputs can act based on any local input, or on data received from the network
- Various output logic sequences are available:
  - ON/OFF, PI Loop, Direct or Reverse acting, Pulsed
- Outputs can be interlocked with each other
- Operates standalone or can be integrated into a compatible network
- Virtual Outputs available for additional control logic
- Outputs can be configured to maintain a fixed setpoint or a variable setpoint based on a reset curve
- Two outputs can be linked together with Lead/Lag and Backup capabilities

### SPECIFIC FEATURES AVAILABLE IN THE AZP-M2000-CONO2

- Internal real-time clock with configurable weekly routines and holiday calendars
- A hand/off/auto switch for each of the eight outputs
- 9 Universal Inputs
- 5 digital outputs and 3 analog outputs equipped with resettable fuses
- For CO/No2 Sensors specify quantity and input thresholds

### OPTIONS

Variable Frequency Drives, Supply & Exhaust Fans, ECM Fan Motors, Motorized Dampers, Horn / Strobes or other output devices.



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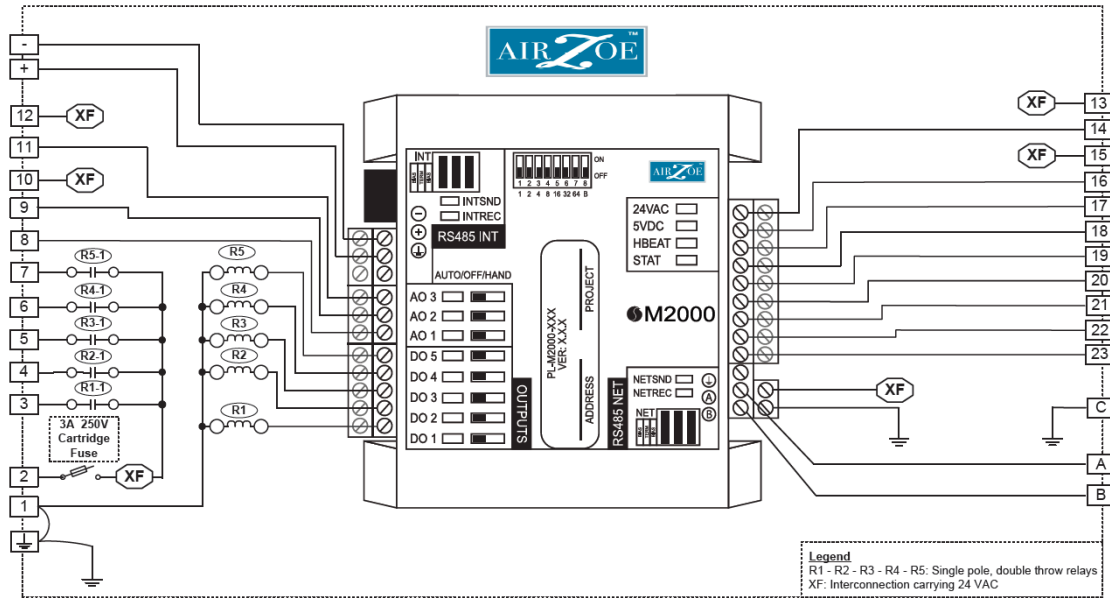
HVAC Manufacturer's Representative



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### INTERNAL ELECTRICAL WIRING DIAGRAM



| TERMINAL | FUNCTION                  | RATINGS            | WIRING DETAILS  |
|----------|---------------------------|--------------------|---|
|          | GROUND                    | N/A                | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 1        | POWER SUPPLY INPUT COMMON | N/A                | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 2        | POWER SUPPLY INPUT 24 VAC | 24 VAC, 3 A, 60 Hz | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 3        | DIGITAL OUTPUT 1          | 24 VAC, 300 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 4        | DIGITAL OUTPUT 2          | 24 VAC, 300 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 5        | DIGITAL OUTPUT 3          | 24 VAC, 300 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 6        | DIGITAL OUTPUT 4          | 24 VAC, 300 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 7        | DIGITAL OUTPUT 5          | 24 VAC, 300 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 8        | ANALOG OUTPUT 1           | 0-10VDC, 40 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 9        | ANALOG OUTPUT 2           | 0-10VDC, 40 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 10       | POWER SUPPLY 24VAC        | 24 VAC, 8.5 VA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 11       | ANALOG OUTPUT 3           | 0-10VDC, 40 mA     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 12       | POWER SUPPLY 24VAC        | 24 VAC, 5 VA       | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 13       | POWER SUPPLY 24VAC        | 24 VAC, 0.03 A     | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 14       | ANALOG OUTPUT 4           | 5 VDC, 20 mA       | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |

| TERMINAL | FUNCTION              | RATINGS        | WIRING DETAILS  |
|----------|-----------------------|----------------|---|
| 15       | POWER SUPPLY 24VAC    | 24 VAC, 6.7 VA | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 16       | ANALOG OUTPUT 8       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 17       | ANALOG OUTPUT 7       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 18       | ANALOG OUTPUT 6       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 19       | ANALOG OUTPUT 5       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 20       | ANALOG OUTPUT 4       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 21       | ANALOG OUTPUT 3       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 22       | ANALOG OUTPUT 2       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| 23       | ANALOG OUTPUT 1       | 5 VDC, 20mA    | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| +        | M2000 RS485 INT A (+) | N/A            | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| -        | M2000 RS485 INT B (-) | N/A            | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| A        | M2000 RS485 NET A (+) | N/A            | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| B        | M2000 RS485 NET B (1) | N/A            | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |
| C        | COMMON                | N/A            | Use Copper Conductors Only, 105°C/220°F, Maximum Torque Conductor Mounting: 0.5Nm |

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### AZ-CO / NO<sub>2</sub> INPUT SENSORS



The AZ-CMD Series carbon monoxide detector uses an electro-chemical sensor to monitor the carbon monoxide level and out-puts a field-selectable 4-20 mA , 0-5 or 0-10 Vdc. The sensing range and output may be scaled to either 100, 150, 300, 400 or 500 ppm via the on-board menu. A front panel LCD is standard to ensure easy setup and operation. It is available in either wall/surface or duct mount configurations.

Other standard features include a back light for the LCD, a front panel test switch, status indication and an alarm buzzer. The test function may also be controlled remotely with a digital input signal. The on-board menu allows local configuration of all device parameters.

Optional features include one or two alarm relays and/or RS-485 network communication configured for either ModBus or BACnet protocol.

The AZ-GDT Series of gas monitoring sensors monitor levels of carbon mon-oxide (CO) and/or nitrogen dioxide (NO<sub>2</sub>) to provide an early warning of elevated concentrations.

The AZ-GDT is available as a standalone CO or NO<sub>2</sub>, as well as a CO/NO<sub>2</sub> dual sensor device.

The dual sensor device is available in 2 configurations: CO/NO<sub>2</sub> housed one enclosure or as CO with remote NO<sub>2</sub> sensor for mounting at a higher location.

The AZ-GDT gas sensors are encapsulated in field replaceable sensors pods that are located on the bottom of the enclosure. The pod design pro-vides a greater area of gas sampling then that of devices that utilize a single vent hole. Replacement pods come pre-calibrated and ready for installation.

The AZ-GDT is available with either Analog, BACnet or Modbus outputs for communication with a building automation system. Standard features include LCD display for configuration and local display as well as status LED's. Optional features include: 1 or 2 adjustable control/alarm relays, adjustable audible (buzzer) & visual (strobe) alarms as well as various temperature sensor.

The AZ-GDT is housed in an IP65 polycarbonate enclosure with a hinged and gasketed cover that provides ease of installation and access for set up



The AZ-NDD nitrogen dioxide detector uses a superior electrochemical sensor for reliability and accuracy in the most critical applications. The NDD provides a 3-wire sourcing 4-20 mA output as well as an alarm relay with three jumper selectable trip level settings.

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## GARAGE EXHAUST SYSTEM

### AZ – SYSTEM OUTPUT OPTIONS

#### AZ-E510 COMPACT AC DRIVES

Features:

- 0.5 to 3 HP (CT), 230V, 50/ 60Hz, 1-Phase
- 0.5 to 40 HP (CT), 460V, 50/ 60Hz, 3-Phase
- 1 to 75 HP (CT), 460V, 50/ 60Hz, 3-Phase
- Parameters Grouped by function
- Built-in PLC Functionality
- PID Process Control Loop
- Built-in Modbus & BACnet Protocols
- 5 Digit Operator’s Keypad with Speed Pot
- Digital and Analog Inputs and Outputs have Extremely Fast (~4 msec) Update Time
- Auto Run Mode (Cyclic Operation)
- Power Loss Ride Through
- Automatic Voltage Regulation (AVR)
- Complies with IEC 60018-2-78, UL, cUL, CE, & RoHS



AZ-PYRA Series Flashing Light Sounders reach a 100 dB (A) nominal sound pressure Level with 5 Joules Flash. This Signaling Device offers a 180° x 360° visible field with adjustable flash rate and 8 alarm tones. It operates in any climate and can be surface or flush panel mounted.



Color: Available in Grey or Red Housing

We offer various exhaust & supply fan options for output to fans with VFD compatible or ECM motors. We also have a complete line of motorized dampers that we can add to any system.



Also available:

AZP-M2000 Customized Control Panels and Accessories for CO2/IAQ Control Systems, Static Pressure Control Systems & Temperature & Humidity Control Systems and more!

Standard Panels for Rooftop, Chiller, Boiler, Make Up Air, Heat Pumps and other Equipment

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