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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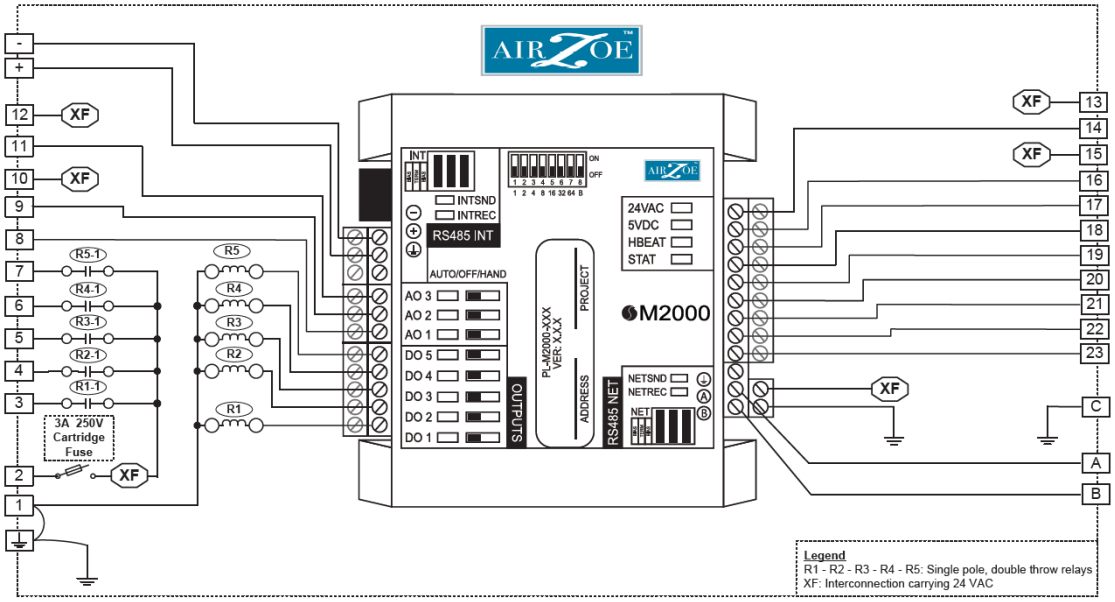
INTERNAL ELECTRICAL WIRING DIAGRAM



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 / NO2 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 (NO2) to provide an early warning of elevated concentrations.

The AZ-GDT is available as a standalone CO or NO2, as well as a CO/NO2 dual sensor device.

The dual sensor device is available in 2 configurations: CO/NO2 housed one enclosure or as CO with remote NO2 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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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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