Boiler Room Gas Detection Controllers

The **AZP-BGC-C** Natural Gas and Carbon Monoxide Controller has inputs and outputs
that can be individually configured for various gas levels.
Inputs will accept a variety of common signal types and can be named by the user.
Outputs can then act based upon local inputs. This allows for enhanced sequencing,
flexibility, and functionality variable demand NG and CO level detections.

- Inputs may be configured to gas level in parts per million (PPM)
- Input signals include 10k type 3 thermistor, dry contact, 4-20mA, 0-20mA, 0-5 VDC,1-5 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

- Supply: 24 VAC ±10%, 50/60 Hz, Class 2
- Consumption: 2 VA (Consumption), 32 VA (Input)
- Inputs: 3 analog inputs with individually configurable signal ranges (thermistor, dry contact, 0-5 VDC, 1-5 VDC, 0.5-4.5
- Inputs may be configured to gas level in parts per million (PPM)
- VDC, 0-10VDC), and 1 digital input
- Digital outputs: 4 triac outputs, 10-30 VAC source or sink, 300 mA max (resettable fuse)
- Analog output: 1 output 0-10 VDC / 2-10 VDC / 0-5 VDC, 40 mA max (resettable fuse)
- Indication lights (LED): State of each output / Communication / Supply / 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 rate: 9600, 19200, 38400, 57600, 76800, 115200
- Connection: Removable screw-type terminal blocks (16 AWG max)
- Dimensions: 6.2" x 5.2" x 2.5" (157 mm x 132 mm x 64 mm)
- Weight: 0.85 lbs (0.39 kg)
- Environment: -4 to 122 °F (-20 to 50 °C) Non-Condensing
- Certification: UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B