



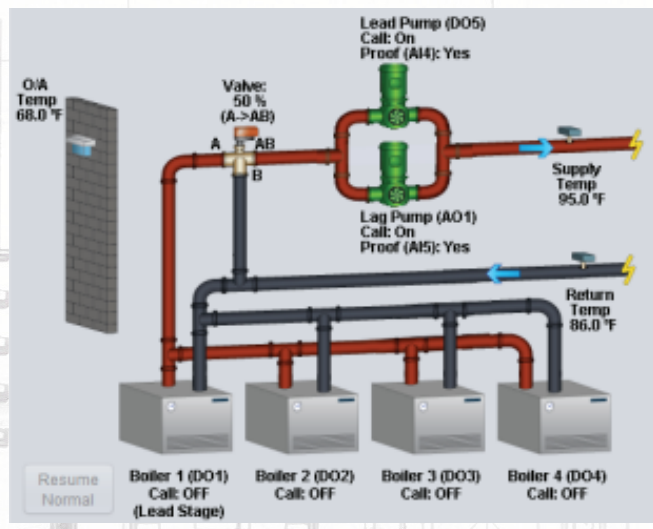
Boiler Control Panel



Our boiler controllers are designed to monitor and control condensing or standard boilers

The **AZPL-BLR-M-M** Boiler controller is designed to control a variety of different boilers. 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 programming & system monitoring.)

The AZPL-BLR-M uses PI (Proportional-Integral) control loops to optimize HVAC management and offers a variety of functions.



Features

- Pump activity based on outside temperature or call for heat (or both)
- Configurable pump exercise sequence for extended periods of inactivity
- Supply water setpoint reset based on outside temperature
- Control up to 4 boiler stages (multiple boilers or a single multistage boiler or combination)
- Control up to 2 modulating boilers with optional backup stage
- Various lead-lag sequences for the pumps and boilers
- Internal clock with configurable schedules and calendars
- Offset the supply water setpoint based on a network received demand or occupancy
- Optional control sequence for a three-way valve
- A manual/off/auto switch for each of the eight outputs
- Remote monitoring and configuration with FREE Proton Focus software
- Standalone or networked (up to 127 nodes)
- Proportional integral (PI) control loops maximize performance
- 5 digital outputs and 3 analog outputs equipped with resettable fuses
- Built-in protection sequences with configurable temperature limits and minimum delays
- Dedicated input that requests maximum heat setpoint upon contact closure
- Dedicated input that deactivates all boilers upon contact closure

Technical Specifications

- Supply: 24 VAC ±10%, 50/60 Hz, Class 2 • Power: 5 VA (consumption), 40 VA (input)
- Inputs: 7 configurable analog inputs (outside temp / supply temp / return temp / dry contacts for proof of pumps, max heat request and boiler disable). Input signals (thermistor / dry contact / 4-20mA / 0-5 VDC) individually configurable for each input
- Digital Outputs: 5 triac outputs, 10-30 VAC source, 300 mA max (resettable fuse)
- Analog Outputs: 3 x 0-10 VDC outputs, 40 mA max (resettable fuse)
- Indication lights (LED): State of each output / Communication / Power / State of microprocessor
- Microprocessor: PIC18F6722, 8 bits, 40 MHz, 128Ko FLASH memory
- Casing: Molded ABS, UL94-HB • Communication: Modbus RTU (RS485), up to 127 nodes.
- Baud Rates: 9600, 19200, 38400, 57600, 76800, 115200 • Connection: Removable screw-type terminal blocks (16 AWG max) and RJ45 modular jacks.
- Dimensions: 5.39" x 4.41" x 2.25" (137mm x 112mm x 57mm) • Weight: 1.05 lbs (0.48 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

DESCRIPTION :

DDC : DIRECT DIGITAL CONTROLLER

DB : DISTRIBUTION BOARD (LIGHTING PANEL)

S/S : START/STOP

ST : STATUS