



AZC-M2000-CHL

CHILLER CONTROLLER

DESCRIPTION

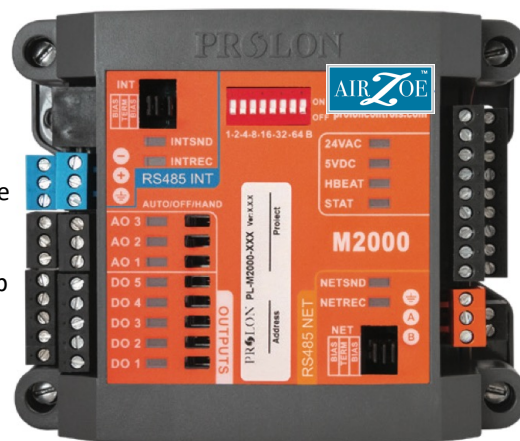
The AZC-M2000-CHL Chiller controller is designed to control a variety of different chiller units and systems and can be used for both air cooled chillers and water-cooled chillers. The on-board microcontroller offers precise digital control to maximize performance. The available control sequences are fully configurable, either locally or remotely, using free software. The AZC-M2000-CHL offers a variety of functions such as outdoor reset for the chilled water supply temperature, lead-lag sequences for pumps and chiller stages, pump VFD control, safety limits and more.

FEATURES

- Pump activity based on outside temperature or schedule (or both)
- Configurable pump exercise sequence for extended periods of inactivity
- Supply water setpoint reset based on outside temperature, return temperature or demand
- Control up to 4 chiller stages (multiple chillers or a single multistage chiller or combination)
- Various lead-lag sequences for the pumps and chillers
- Chiller lockout or stage down based on entering or leaving
- condenser water temperature limits
- Can modulate a VFD for each pump to maintain a fixed water pressure setpoint
- Internal clock with configurable schedules and calendars
- A manual/off/auto switch for each of the eight outputs
- Remote monitoring and configuration with FREE AirZoe Focus software
- Standalone or networked (up to 127 nodes)
- 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 can deactivate the pumps upon contact closure

TECHNICAL SPECIFICATIONS

- **Supply:** 24 VAC \pm 10%, 50/60 Hz, Class 2
- **Power:** 5 VA (consumption), 40 VA (input)
- **Inputs:** 9 analog inputs (outside temp / supply water temp / return water temp / dry contacts for proof of pumps, entering condenser water temp, leaving condenser water temp, water pressure and alarm). Input signals (thermistors / 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 oF (-20 to 50 oC) Non-Condensing
- **Certification:** UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B



ALL RIGHTS RESERVED TO D-VAC SALES INC.
200B VERDI STREET, FARMINGDALE NY 11735
SALES@DVACHVAC.COM
516-256-3131



HVAC Manufacturer's Representative