PR LON



Datasheet

Water Loop Controller (PL-C1050-WLC)

Description

The Prolon C1050 WLC water loop controller is designed to control a water loop system comprised of a boiler and a water tower with an internal pump. The built-in microprocessor offers precise digital control to maximize performance. The available control sequences are fully configurable, either locally or remotely with free software. The C1050 offers a variety of functions such as bypass valve control, cooling tower damper control and more.

Features

- Controls a boiler and water tower with internal pump based on supply temperature
- Bypass valve controlled by return temperature
- Up to 2 water tower (cooling) stages, one of which can be modulating
- Water tower damper sequence also available
- Stand-alone or networked (up to 127 nodes)
- Remote configuration and visualization with FREE Prolon Focus software
- 4 digital outputs and 1 analog output equipped with resettable fuses

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2
- Power: 2 VA (consumption), 32 VA (input)
- Inputs: Supply water temp thermistor 10K
 Return water temp thermistor 10K
 Auxiliary temp thermistor 10K
 Auxiliary digital input dry contact
- **Digital outputs**: 4 triac outputs, 10-30 VAC source or dry contact, 300 mA max (resettable fuse)
- Analog output: 1 output 0-10 VDC, 40 mA max (resettable fuse)
- Indication lights (LED): State of each output / Communication / Power / 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 Rates: 9600, 19200, 38400, 57600, 76800, 115200
- Connection: Removable screw-type terminal blocks (max 16 AWG)
- **Dimensions**: 6.2" x 5.2" x 2.5" (157mm x 132mm x 64mm)
- 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, FCC part 15: 2012 class B, RoHS

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