

BP848

BACplus-MSTP

Chiller_BACnet MS/TP
Controller



Description

- Chiller pre-loaded licensed firmware application
- 8 AI/BI, 4 AO's & 8 BO's with local HAO switches for outputs
- BACnet MS/TP **BTL** certified as a B-ASC



Application

The BP848 Chiller sequence supports 3 pumps: evaporator, chiller, and swing [optional]; 2 chillers [second chiller is optional] that will be changed over manually; Up to 2 cooling towers to run concurrently. To run the system, a BP848 with an MEXP 8AI will be needed for the primary chiller, a BP848 for the optional secondary chiller.

Technical specifications

Power supply:

- 24 VAC/VDC \pm 15%; Class 2
- 2 Amp Field Replaceable Fuses

Current Consumption:

- 6 VA controller only

Communication Protocols:

- BACnet MS/TP half-wave device
- BTL listed: B-ASC, BACnet Application Specific Controller
- Baud 9600, 19200, 38400, 76800 Bps (76800 default)
- Addressing: Dipswitch
- Mini USB2 MS/TP network access (Strato Automation USB-485 cable adapter)
- All Strato Controllers are 1/4 unit load devices.**

Hardware

- Microprocessor: STM32 (ARM Cortex™ M3) 32 bits
- CPU Speed: 72MHz
- Memory: 768 KB non-volatile Flash (Application Program)
- RAM: 96 KB RAM
- Real-time clock (RTC): Built-in capacitor (one-week backup)

Inputs:

- 8 Universal Inputs (AI/BI)
 - Thermistor 10K Ω (type 2 or 3)
 - Dry contact, 500 ms minimum (On-Off)
 - Resolution: 12 Bits (4096 segments)

Outputs:

- 8 Binary Outputs
 - Mosfet SSR Relays, External Isolated power
 - 10 to 30VAC/VDC, 0.35A max
 - Built in thermal protection (auto-reset)
- 4 Analog Outputs
 - Voltage 0 - 10 VDC linear

Onboard 24VDC Output:

- 100mA output max
- 24 VDC Output for 4-20mA transmitters only
- Not for general use

Mechanical:

- Dimensions: 3.5" x 7.5" x 1.6"
88.9 mm X 190.5mm X 41.27 mm
- Stocking temperature:
-30 °C to 50 °C / -22 °F to 122 °F
- Operating conditions:
-25 °C to 50 °C / -13 °F to 113 °F
10% to 90% H.R. without condensation
- Weight: 315 g / 0.7 lb
- Enclosure: White color, ABS material UL94VO

Programming:

- Configurable writing to the BACnet objects or utilizing Strato Software tools.

Warranty: 1 Year

Certifications:

- UL 916 Energy Management Equipment
- BTL listed: B-ASC, BACnet Application Specific Controller

