



Description

- ▶ The BACwall is a fully programmable digital wall controller
- ▶ It supports BACnet MS/TP
- ▶ It has 3 AI/BI's, 2 AO's & 4 BO's
- ▶ It is BTL certified as a B-BC (BACnet Building Controller)
- ▶ To order use part number: BW324

Application

This controller is designed to facilitate control and management of equipment typically used in the HVAC industry. It allows powerful yet flexible solutions that can be tailored and sized according to any project needs.

Technical specifications

Power supply:

24 Vac/Vdc \pm 15%

Current consumption:

1.2 VA controller only

Up to 35 VA with all 4 BO's @ 0.35A each

Inputs:

3 x AI/BI's universal inputs

- Thermistor 10K Ω (type 2 or 3)
- Dry contact, 500 ms minimum (On-Off)
- Voltage 0 - 10 Vdc (Input impedance of 100 K Ω)
- Resolution: 12 Bits (4096 segments)

Outputs:

4 x BO's Solid State

- 10 to 30Vac/Vdc, 0.35A max.,
- Sink or source
- Built-in overcurrent protection
- Thermal protection with automatic reset
- Solid State BO's can be used as pulse outputs

2 x AO's

- Voltage 0 - 10 Vdc linear

Real-time clock (RTC):

Built in with one-week capacitor backup once charged

Backlight display / LCD

Multi-HVAC system symbols, time display, 4 segment main numeric display with one decimal

Trend logs:

Automatic for all declared BACnet objects Limited only by the storage capacity of the server when connected to a Strato Edge Server

Microprocessor:

STM32 (ARM Cortex™ M3)
32 bits, 72MHz

Memory:

Flash: 768 KB non-volatile for the application program
RAM: 96 KB

Number of BACnet objects:

Maximum 100 items

RS485 BACnet MS/TP communication speed:

9600, 19200, 38400, 76800 Bps

Controller addressing:

Addressing via DIP switch

External connections:

Mini USB2 connector allows local access to the MS/TP network
Requires a Strato Automation USB-485 cable adapter

Programming:

Fully programmable using the Strato Workstation software

Communication protocols:

BACnet MS/TP

Dimensions:

B 123 mm x A 73 mm x 24 mm
B 4,85" x A 2,85" x 1,0"

Max. wire size:

16 awg

Stocking temperature:

-30 °C to 50 °C / -22 °F to 122 °F

Operating conditions:

0 °C to 45 °C / 32 °F to 113 °F

10% to 90% H.R. without condensation

Weight:

120 g / 0.25 lb

Mounting type:

Standard 2" x 4" electrical junction box

Warranty:

1 year

Enclosure:

White color, ABS material UL94VO

Certifications:

UL 916 Energy Management Equipment
BTL listed: B-BC, BACnet Building Controller

