Continuum®
BACnet Family™

- **Native BACnet MS/TP Communications for Interoperability to Third-Party Systems**
- **Powerful, Flexible System Controller for the Most Demanding Applications**
- **Ideal for Monitoring Small or Large Groups of Inputs in a Concentrated Area**
- **Universal Inputs Can be Configured as a Supervised Input for Monitoring Open Wires or Short Circuits**
- **Non-Volatile Flash Memory Provides Utmost Reliability — Stores Both Application Program and Operating System**
- **Local, Extended Storage of Log Data**

b3600 Series Local Controllers

The *Continuum* b3600 series controllers are native BACnet Advanced Application Controllers (B-AAC) that communicate on an RS-485 field bus as Master devices using the MS/TP BACnet protocol.

The b3600 series are designed for monitoring a small or large concentration of input points from a single controller. Choose the b3600 series controller with the input configuration that matches your application:

- The **b3608,** with eight Universal inputs, is designed for stand-alone equipment monitoring for a small concentration of input points. This controller is also configurable for Supervised Input monitoring to determine broken wire detection or shorts. The b3608 is ideal for Security applications (motion detection, glass break detection, intrusion detection) or traditional control applications (temperature, humidity, etc).

- The **b3624** provides the same functionality as the the b3608 and in the same small footprint of the b3608, but with three times the number of input points (24) for monitoring various device signals. With the small footprint and high point count, the b3624 is ideal for large concentration of inputs, reducing the number of controllers required in the system, and decreasing cost, complexity, and maintenance requirements.

The b3600 series also features Flash memory, increased user memory, and a fast (32-bit) processor for faster scan times, with plenty of memory available for data logging of your critical data.

As a native BACnet controller, the b3600 series can communicate with other BACnet devices on the MS/TP network, in strict accordance with **ANSI/ASHRAE standard 135-2001**. By connecting to Andover's *Continuum* b4920 device, the b3600 series and other MS/TP devices can share data from the wider Ethernet/IP network of controllers.

INCREASED RELIABILITY WITH FLASH MEMORY

The b3600's non-volatile Flash memory stores your operating system *and* application programs, so that in the event of a power loss, your application will be restored when power is returned. In

NATIVE BACnet

addition, the Flash memory allows for easy upgrades of your operating system via software downloads, eliminating the need to swap out proms. The b3600 controllers include an on-board battery to safeguard your runtime data — protecting all point data and log data from being lost if power is removed.

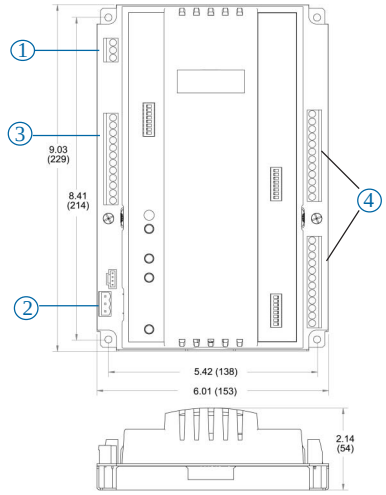
INPUTS

The input configuration on the b3600 series consists of eight full range, 10-bit Universal inputs that accept voltage (0-5VDC), digital (on/off), counter signals (up to 4Hz), temperature signals, or supervised alarm circuits for security applications or broken wire detection.

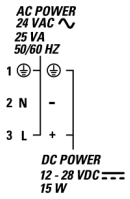
SOFTWARE CAPABILITIES

The dynamic memory of the b3600 can be allocated for any combination of programs, scheduling, alarming, and data logging using the powerful Andover Controls *Plain English*® programming language. Our object-oriented *Plain English* language with intuitive keywords provides an easy method to tailor the controller to meet your exact requirements. Programs are entered into the b3600 using the *Continuum* CyberStation®. Programs are then stored and executed by the b3600 controllers.

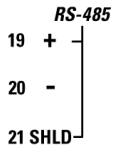
Programming multiple b3600 series controllers is inherently easy with *Plain English*. A complete copy of one b3600's programs can be loaded directly into other b3600s without changing any point names or programs.



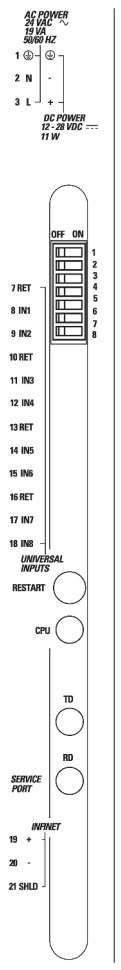
Dimensional Drawing



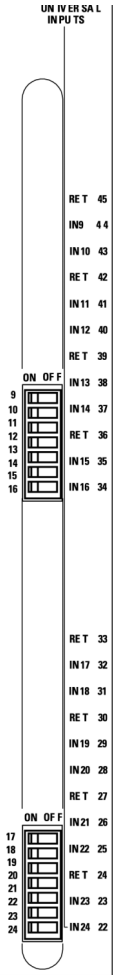
①Power Drawing



②Communications Drawing



③b3608 and b3624



④b3624

Inputs Drawings

SPECIFICATIONS

b3 600 Series Local Controllers

ELECTRICAL

Power:	24VAC, 12-24VDC - auto sensing, +10% - 15%, 50/60 Hz
Power Consumption:	25 VA
Overload Protection:	Fused with 3 amp fuse. MOV protected.
Software Real-Time Clock:	Synchronized through MS/TP via BACnet

MECHANICAL

Operating Environment:	32°–120°F (0–49°C), 10–95% RH (non-condensing)
Size:	9.03"H x 6.01"W x 2.14"D (229 H x 153 W x 54 D) mm
Weight:	1.19 lbs. (.54 kg)
Enclosure Type:	UL Open class, IP 10. Flammability rating of UL94-5V
Mounting:	Panel mount

BATTERY

Battery Backup:	Replaceable, non-rechargeable, lithium battery. Provides 5 years typical accumulated power failure backup of RAM memory

COMMUNICATIONS

Communications Interface:	RS-485 BACnet, MS/TP 127 devices maximum
Communications Speed:	9600, 19.2K, 38.4K, 76.8K baud*
BACnet Device Profile:	B-AAC, BACnet Advanced Application Controller
Bus Length:	4,000 ft. (1,220m) standard; BACnet repeater allows extension to longer distances.
Bus Media:	Twisted, shielded pair, low capacitance cable

Note: Baud rates REQUIRE Continuum V1.62 version (or later) of software

INPUTS

Inputs:	b3608: 8 Universal inputs b3624: 24 Universal inputs Voltage (0-5.115 VDC); Temperature -30°F to 230°F (-34°C to 110°C), Digital (on/off), Counter (up to 4Hz at 50% duty cycle, 125 ms min. pulse width). Supervised Alarm (single or double resistor). Current input (0 - 20 mA) using external 250 ohm resistor
Input Voltage Range:	0-5.115 volts DC
Input Impedance:	10K ohm to 5.120V or 5M ohm with pull-up resistor disabled
Input Resolution:	5.0 mV
Input Accuracy:	±15mV (±0.56°C from -23°C to +66°C or ±1°F from -10°F to +150°F)

CONNECTIONS

Power:	3-position fixed screw terminal connector
Inputs:	Inputs 1-8 (*both b3608 and b3624*): 12-position fixed screw terminal connector *b3624 only:* Inputs 9-16: 12-position fixed screw terminal connector Inputs 17-24: 12-positon fixed screw terminal connector
Communications:	3-position removable screw terminal connector
Service Port:	4-position shrouded connector

USER LEDS/SWITCHES

Status Indicator LEDS:

CPU	CPU Active
TD	Transmit Data
RD	Receive Data

Switches:

RESET

Input Pull-up Resistor Switch (per input)

GENERAL

Memory:	128K SRAM, 1MB FLASH
Processor:	Motorola 32-bit Coldfire

Note: b3600 Series REQUIRES *Continuum* V1.6 version (or later) of software

AGENCY LISTINGS

UL/CUL 916, FCC CFR 47 Part 15, ICES-003, EN55022, AS/NZS 3548, Class A, CE

CE c UL us LISTED 58B2 OPEN ENERGY MANAGEMENT EQUIPMENT

OPTIONS

UL864, Smoke Control System Equipment, UUKL (b3608-S, b3624-S)

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