

With expandable inputs and outputs plus a built-in router and web server, this native BACnet 16 x 16 B-BC gives you the power of multiple devices inside one box

BACnet Building Controller



Power

For the most demanding applications, the BACnet Building Controller (B-BC) is a high-performance, native BACnet direct digital controller. As part of a complete interoperable building automation system, this 16 x 16 B-BC provides precise monitoring and control of connected points. Integrated into the controller is a BACnet router, a web server, and expandable I/O in a native BACnet device.

A web server allows a remote web browser to configure I/Os, set-up objects, and monitor values (configuration/monitoring also available through TotalControl). Firmware is easily upgradable (without requiring physical access) through the web or Ethernet connection.



Up to seven CAN-A168EIO expansion modules can be connected (via standard shielded twisted-pair wire up to 200 feet from the B-BC). Each provides an additional 16 universal inputs and 8 universal outputs (for a maximum total of 128 inputs and 72 outputs)...if you have to think outside the box.

building your comfort zone™

Specification Highlights

Inputs

Inputs configurable via jumper for 1K or 10K ohm pull-up resistors (for unpowered contacts or devices), 0-12 VDC, or 4-20 mA

Analog inputs accept industry-standard 1K ohm platinum and 10K ohm thermistor sensors, 0-12 VDC devices, or 4-20 mA devices

Binary inputs accept 0 or 12 VDC (on/off)

Pulse (passive or active up to 12 VDC) counting to 16 Hz

Input overvoltage protection (24 volts AC, continuous)

16-bit analog-to-digital conversion on inputs

Expandable up to a total of 128 inputs (with expansion modules)

Outputs

Each short-circuit protected output capable of driving up to 100 mA (at 0-12 VDC) or 600 mA for all outputs

16 slots for HPO-6700 series output override cards

12-bit digital-to-analog conversion on outputs (total)

Expandable up to a total of 72 outputs (with expansion modules)

Web Functions

Built-in web configuration pages allow web browser to configure I/Os, set-up objects, and monitor values

Custom graphic interface (created/published in TotalControl, ver. 1.7 or higher) for remote web browser

Firmware is easily upgradable (without requiring physical access) through the Internet or local Ethernet connection

Router Functions

Routes traffic between two MS/TP ports, one BACnet PTP (point-topoint) port, four (logical) BACnet IP ports, and one (logical) BACnet Ethernet port

Supports BACnet IP foreign device registration and BBMD, supports PTP modem communications, and performs IP packet assembling/ disassembling (PAD) routing for up to four BACnet IP PAD networks

Each of the four (logical) BACnet IP ports can be configured for BACnet IP, BBMD, foreign device registration, or PAD

Other Key Features

Up to 32 Control Basic custom program sequences for optimal control of a central plant, air handlers, and other connected equipment

Email notifications of alarms and events

Real-time clock with power backup for 72 hours

High-performance 32-bit processor

(NOTE: For additional specifications, see the BAC-A1616BC data sheet.)

