

Taking on the open
systems challenge



BAC-5801/5802 Native BACnet Advanced Application Controller

An 8-input, 8-output controller for
general purpose HVAC and building
automation applications



BAC-5801/5802 AAC

Native BACnet Controller

Versatility in terms of use becomes critical on open systems projects, and the BAC-5801 and BAC-5802 were designed to meet such needs. Each is an MS/TP compliant, native BACnet advanced application controller (AAC). Built-in auto addressing automatically assigns MAC addresses and device instance numbers.

This fully programmable direct digital controller features 8 universal inputs and 8 universal outputs, each of which is programmable as an analog or binary object.



Use the versatile controller in standalone applications or networked to other BACnet devices. The AAC enables control of room temperature, humidity, fans, lighting, and other building automation functions.

For added flexibility, you can add up to 8 output override boards featuring triac, relay, and 4–20 mA analog options.

The robust controller can enhance the versatility of any BACnet installation. Add our BACnet operator workstation software and other native BACnet advanced application controllers to meet the challenges of your next open systems project.

SPECIFICATIONS

Inputs

- 8 universal inputs, each of which is programmable as an analog, binary, or accumulator object (accumulators limited to 3 per controller)
- Pull-up resistors for switch contacts and other unpowered equipment
- 0–5 VDC analog input range
- Pulse counting to 16 Hz
- 10-bit analog-to-digital conversion
- Overvoltage input protection
- Removable screw terminal blocks

Outputs

- 8 universal, programmable (as binary or analog) outputs, with slots for output override boards (with 4–20 mA, triac, and relay options)
- 0–10 VDC for analog objects; 0/12 VDC for binary objects
- Short protected outputs, output current limited to 100 mA per output (or 350 mA total)
- Standard and custom units of measure

Programmable Features

- 10 Control Basic program areas
- 8 PID loop objects
- 40 analog and 40 binary value objects
- 8 Schedule objects
- 3 Calendar objects
- 8 Trend objects
- Real-time clock with power backup for up to 72 hours (BAC-5801 only)

Communications

- MS/TP (EIA-485) operating at 9.6, 19.2, 38.4, or 76.8 kbps
- KMD-1160/1180 series NetSensor® compatible

Regulatory

- BACnet Testing Laboratory listed
- CE compliant and FCC Class B, Part 15 Subpart B
- UL 916 and UL 864 (UUKL) listed



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