Taking on the open systems challenge

BAC-5831 Native BACnet Advanced Application Controller

A 16-input and 12-output controller for general purpose HVAC and building automation applications

KMC CONTROLS

BAC-5831 AAC
Native BACnet Controller

Versatility in terms of use becomes critical on open systems projects. The BAC-5831 was designed to meet such needs. It 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 16 universal inputs and 12 universal outputs, each of which is programmable as an analog or binary object.

FFP
Fully Field Programmable

Use this versatile controller in standalone applications or networked to other BACnet devices. The BAC-5831 enables control of room temperature, humidity, fans, lighting, and other building automation functions.

For added flexibility, you can add up to 12 output override boards featuring triac, relay, and 4–20 mA analog options.

This 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
16 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
12 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 450 mA total)

Standard and custom units of measure

Programmable Features
10 Control Basic program areas

12 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

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

BTL — BACnet Testing Laboratory

BACnet® International

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CE

building your comfort zone®

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