

Ready for the open
systems challenge



(BAC-7301/7301C)



Native BACnet Advanced Application Controller—AHU

A 4-input, 4-output controller for air
handling unit applications



BAC-7301/7301C AAC Native BACnet Controller



Specifically designed for small air handling units, the BAC-7301 and BAC-7301C are MS/TP compliant, native BACnet advanced application controllers (AAC).

They are supplied with programming sequences appropriate to the AHU designation. Yet, the controllers are also fully programmable.

These native BACnet controllers are distinguished by 4 universal inputs and 3 universal outputs, each of which can be programmed as an analog or binary object. An additional optically isolated triac output is also programmable.

The built-in programming includes

- Air handler operation based on occupancy, night setback, proportional hot and chilled water valve control
- Economizer operation
- Freeze protection

These controllers were designed for ease-of-installation, simple configuration, and robust operation. KMC also offers intuitive BACnet software and other versatile advanced application controllers.



SPECIFICATIONS

Inputs

4 universal, programmable inputs
Pull-up resistors for switch contacts and other unpowered equipment
Removable screw terminal block
0–5 VDC analog input range
10–bit analog-to-digital conversion
Overvoltage input protection
Pulse counting to 16 Hz

Outputs

3 universal, programmable outputs
1 triac out, optically isolated
0–10 VDC for analog objects; 0–12 VDC for binary objects
Standard and custom units of measure
Output current limited to 100 mA per output (outputs are short protected)

Programmable Features

10 Control Basic program areas
4 PID loop objects
32 analog and 32 binary value objects
8 Schedule objects
3 Calendar objects
8 trend objects
Real-time clock with power backup for up to 72 hours (BAC-7301C only)
(See PIC statement for supported objects)

Communications

MS/TP (EIA-485) operating at 9.6, 19.2, 38.4, or 76.8 kbits
NetSensor® compatible

building your comfort zone™