

The BAC-7303 and BAC-7303C are native BACnet, fully programmable, controllers designed for fan coil units. Use these versatile controllers in stand-alone environments or networked to other BACnet devices. As part of a complete facilities management system, the BAC-7303 and BAC-7303C controllers provide precise monitoring and control of connected points.

- ◆ BACnet MS/TP compliant
- ◆ Supplied with programming sequences for fan coil units
- ◆ Easy to install, simple to configure, and intuitive to program
- ◆ Controls room temperature, humidity, fans, monitors refrigeration, lighting, and other building automation functions.



## Specifications

### Inputs

- ◆ 4 universal inputs each of which is programmable as an analog, binary or accumulator object. Accumulators limited to three in one controller.
- ◆ Standard units of measure
- ◆ Pull-up resistors for switch contacts and other unpowered equipment. Switch select none or 10kΩ
- ◆ Removable screw terminal block, wire size 14-22 AWG
- ◆ 10-bit analog-to-digital conversion
- ◆ Pulse counting to 16 Hz
- ◆ 0-5 volts DC analog input range
- ◆ Overvoltage input protection
- ◆ Compatible with KMD-1161 and KMD-1181

### Outputs, Universal

- ◆ 2 universal outputs each of which is programmable as an analog or digital object.
- ◆ Standard and custom units of measure
- ◆ 0-10 volts DC for analog objects
- ◆ 0-12 volts DC for binary objects
- ◆ Output current limited to 100mA per output. Outputs are short protected.

### Outputs, Triac

- ◆ 1 Optically isolated triac output
- ◆ 1 Dual stage optically isolated triac output
- ◆ Maximum switching 30 volts AC at 1 ampere
- ◆ Removable screw terminal block, wire size 14-22 AWG

### Supplied application programs

KMC Controls supplies the BAC-7303 controllers with programming sequences for fan coil units:

- ◆ Proportional fan control
- ◆ Proportional chilled water valve
- ◆ 1 or 2 stage heat
- ◆ Optional humidity control

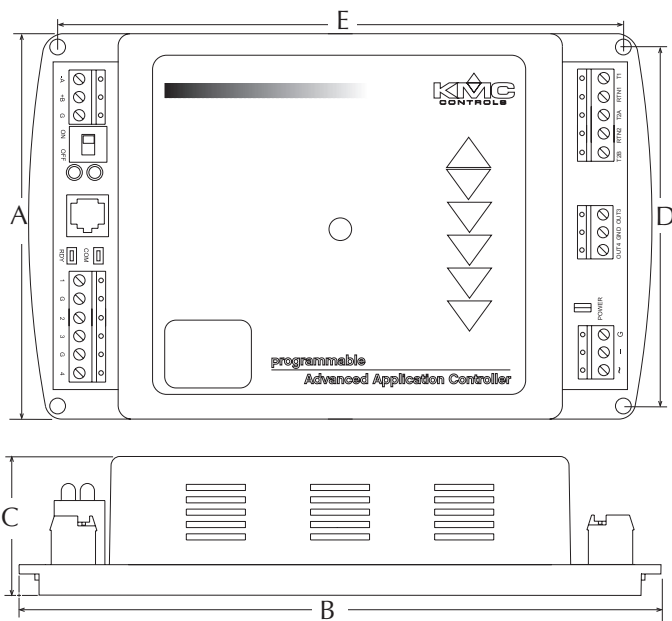
### Programmable features

- ◆ 10 Control Basic program areas
- ◆ 40 analog and 40 binary value objects
- ◆ 4 PID loop objects
- ◆ Real time clock with power backup for 72 hours (BAC-7303C only)
- ◆ See PIC statement for supported BACnet objects

### Schedules

- ◆ 8 Schedule objects
- ◆ 3 Calendar objects

## Dimensions



A	B	C	D	E
3.31 in.	6.79 in.	1.42 in.	4.00	6.00 in.
84 mm	172 mm	36 mm	102 mm	152 mm

## Specifications (continued)

### Alarms and events

- ◆ Supports intrinsic reporting
- ◆ 8 Notification class objects

### Trends

- ◆ 8 Trend objects

### Memory

- ◆ Programs and program parameters are stored in nonvolatile memory.
- ◆ Auto restart on power failure

### Communications

- ◆ EIA-485 operating up to 76.8 kilobaud
- ◆ NetSensor compatible through RJ-12 connector

### Environmental limits

Operating	32 to 120° F (0 to 49° C)
Shipping	-40 to 140° F (-40 to 60° C)
Humidity	0-95% relative humidity (non-condensing)

### Regulatory

- ◆ UL 916 Energy Management Equipment
- ◆ FCC Class A, Part 15, Subpart B

## Installation

Supply voltage	24 volts AC, -15%, +20% 25 VA
Weight	3.5 ounces (99 grams)
Case material	Black flame retardant polymer

### Software compatibility

Requires BACstage 2.2.0.7 or a later version for configuration and programming.

## Options and Accessories

### Power transformer

XEE-6111-40	Single-hub 120 volt transformer
XEE-6112-40	Dual-hub 120 volt transformer

### Models

BAC-7303C	BACnet controller with real-time clock
BAC-7303	BACnet controller without real-time clock

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