

Anemostat® SUBMITTAL

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Model **ABC-5801 / 5802**
DIRECT DIGITAL CONTROLS
ADVANCED APPLICATION
BACnet CONTROLLERS

DIRECT DIGITAL CONTROLS

DESCRIPTION AND APPLICATION

The ABC-5801 and ABC-5802 are native BACnet, fully programmable, direct digital controllers. Use these versatile general purpose controllers in standalone environments or networked to other BACnet devices. As part of a complete facilities management system, the ABC-5801 and ABC-5802 controllers provide precise monitoring and control of connected points.

- BACnet MS/TP compliant
- Automatically assigns the MAC address and the device instance
- 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

- 8 universal inputs, each of which is programmable as an analog, binary, or accumulator object. Accumulators limited to three per controller.
- Standard units of measure
- Pull-up resistors for switch contacts and other unpowered equipment. Switch selects none or 10K ohms.
- Removable screw terminal blocks, 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-1160 and KMD-1180 series NetSensors

Outputs

- 8 universal outputs, each of which is programmable as an analog or binary object
- Standard and custom units of measure
- Slots for HPO-6700 series output override boards
- Removable screw terminal blocks, wire size 14–22 AWG
- 0–10 volts DC for analog objects
- 0 or 12 volts DC for binary objects
- Short-protected outputs, output current limited

Programmable features

- 10 Control Basic program areas
- 40 analog and 40 binary value objects
- Real time clock with power backup for 72 hours (ABC-5801 only)
- 8 PID loop objects
- See PIC statement for supported BACnet objects



Schedules

- 8 Schedule objects
- 3 Calendar objects

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

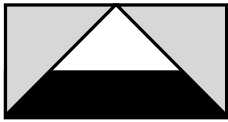
Communications

- MS/TP operating at up to 76.8 kilobaud (network connections are supervised in smoke control applications)
- Automatically assigns MAC addresses and device instance numbers
- Modular jack for NetSensor connection (5 VDC at 25 mA typical)

All dimensions are in inches.

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INSTALLATION

Supply voltage

24 volts AC (-15%, +20%), 60 Hz, 36 VA, Class 2 only, non-supervised (all circuits, including supply voltage, are power limited circuits)

Weight 14 ounces (395 g)

Case material Green and black flame retardant plastic

Environmental limits

Operating 32 to 120° F (0 to 49° C)

Shipping -40 to 140° F (-40 to 60° C)

Humidity 0-95% RH (non-condensing)

Regulatory

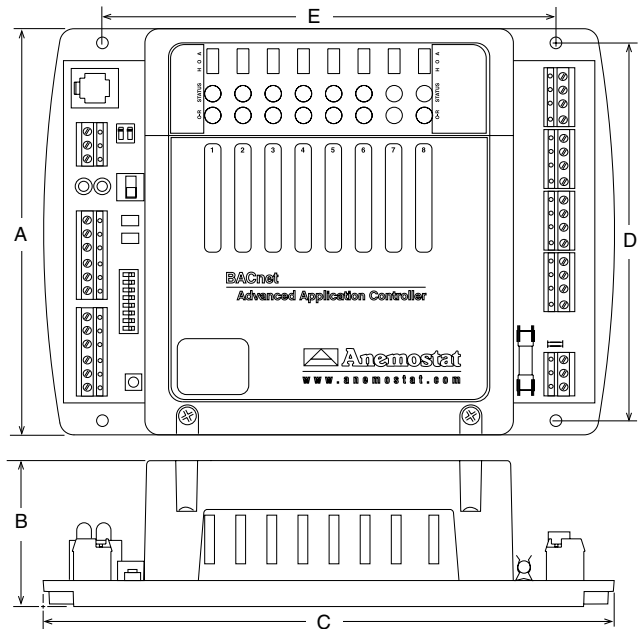
- FCC Class B, Part 15, Subpart B
- BACnet Testing Laboratory listed
- CE compliant
- UL 916 Energy Management Equipment listed
- UL 864 Smoke Control Equipment listed (UUKL)(for smoke control applications, see Smoke Control Manual For BACnet Systems, P/N 000-035-08)

Software compatibility

Requires the current version of BACstage or TotalControl for full configuration and programming features.

MODELS

ABC5801 Controller with real-time clock
ABC5802 Controller w/o real-time clock



ABC-5801 / 5802 DIMENSIONS

A	B	C	D	E
5.38 in.	1.98 in.	7.55 in.	5.0 in.	6.0 in.
137 mm	50 mm	192 mm	127 mm	152 mm



All dimensions are in inches.

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