



## Connection to a BACnet® Network ... and So Much More

Connecting to a BACnet® network may be your primary driver ... but with the amazing flexibility and consumer-friendly options that FlexStat™ BAC-10000 Series thermostats from KMC Controls offer, you'll definitely want to look for projects where you can use them as a stand-alone control device as well.

Why? Because this isn't simply a thermostat with a few extra options. These FlexStat™ thermostats are highly engineered, rugged, American-made products that offer the most robust flexible input and output configurations available today – along with built-in or custom programming to support a whole range of applications.



### Flexible, Forward-Looking Features

The standard hardware options that come on all BAC-10000 Series thermostat models aren't just "tinsel on the tree." They're functionalities that deliver *real, practical benefits* to the end-user consumer. Standard features like:

- Output configurations
- Inputs for remote external sensors
- A real-time clock that enables setting schedules for weekdays, weekends, all week, individual days, plus holidays

But there's even more. Additional features and functions that are offered standard in the BAC-10000 Series include:

- LCD display of user-friendly, English-language menus
- A library of configurable application control sequences
- Integral energy management control features
- No need to change the battery – all models have a 72-hour power (capacitor) backup

With such a lineup of features and benefits, it's no surprise these thermostats **meet or exceed all BACnet® data communication protocol AAC specifications** as contained in the ANSI/ASHRAE BACnet® Standard 135-2008.



## Additional Options

Beyond the impressive array of features that are standard on all FlexStat™ BAC-10000 Series thermostats, additional sensor options make these thermostats the show-horse as well as the workhorse of the industry:

- Motion/occupancy sensor, with optional remote sensors that can be connected
- Humidity sensor
- Fan status sensor
- Outside air temperature sensor



*Behind every unit that carries the Whalen name is a singularity of purpose: The engineering and manufacturing of products that improve the quality of life of our customers. Our long-term commitment to this endeavor assures you of systems that are distinctive in concept, performance, reliability and value.*

*Find out how our approach to your project will deliver a "perfect fit" solution ... and make your life easier.*

## FlexStat™ BAC-10000 Series Thermostats: Technical Information

### Connecting Inputs – Supported Input Devices

- Active 0-12 VDC
- Passive contacts
- 10K ohm thermistors – Type III are default
- 4-20 mA connected as voltage across an external resistor

### Outputs

- Various quantities, depending on model, analog and binary (relays)
- Each short circuit-protected analog output is capable of driving up to 20 mA (at 0-12 VDC)
- NO, SPST (Form "A") relays carry 1 A max. per relay or 1.5 A per bank of 3 relays (relays 1-3, 4-6 and 7-9) @ 24 VAC/VDC
- 8-bit digital-to-analog conversion on outputs

## Take the Next Step

To learn more about how The Whalen Company can help you save time and money on your next project, contact your local Whalen representative, call **410-822-9200** to speak with one of our specialists, or e-mail your request to [sales@whalencompany.com](mailto:sales@whalencompany.com).

Additional technical resources, including engineering drawings and digital equipment selection software, are available on our web site at [www.whalencompany.com](http://www.whalencompany.com).