

Flexible building automation
...for any size space



(Shown
with Optional
Motion Sensor and
Light Almond Case)

BAC-10000 Series FlexStat™ BACnet Programmable Thermostats

Flexible, powerful, yet simple building
automation for any size of comfort zone



Flexible control at your fingertips

Home Screen

WED 9/3 5:43 PM
72.6 °F
 COOL:
 OCC:
 FAN:
 HUM: 31%RH

Override Screens

SYSTEM MODE
 SYSTEM ENABLE: AUTO

OCCUPANCY OVERRIDE
 OCC OVERRIDE: OFF

FAN MODES
 UNOCC: AUTO
 OCC: AUTO

ALARMS
 * LOW LIMIT ALR 09/22
 FAN FAIL ALAR 09/18
 SPACE TEMP AL 09/11
 SPACE HUM ALA 08/18
 SPACE TEMP AL 07/11
 FAN FAIL ALAR 06/21

SETPOINTS
 COOL SETPT: 74° F
 HEAT SETPT: 67° F
 COOL SETBACK: 80° F
 HEAT SETBACK: 64° F
 DEADBAND: 2° F
 DEHUM SETPT (%): 65

SCHEDULE
 WEEKDAYS [MON-FRI]
 WEEKEND [SAT-SUN]
 ENTIRE WEEK [MON-SUN]
 INDIVIDUAL DAYS
 HOLIDAYS

PASSWORDS

USER:	1 0 0 0
OPERATOR:	1 2 3 4
ADMIN:	1 0 0 0

Configuration Screens

MAIN MENU

- ABOUT
- ADVANCED
- ALARM
- DATE/TIME
- SCHEDULE
- SETPOINTS
- SYSTEM

ADVANCED

APPLICATION

- CB PROGRAMS
- COMMUNICATION
- DATE/TIME
- DEVICE
- LIMITS
- SECURITY

APPLICATION

- DEGREES SCALE: °F
- APP: AIR HANDLER
- OPT: MOD H/MOD C
- ECON: NONE
- DEHUM: ENABLE
- ALLOW HTG DEHUM: NO
- SNSR2: FAN STATUS

FAN SETUP

- SPEEDS: CONSTANT SPEED
- OFF DELAY (SECS): 180
- UNOCC: AUTO
- OCC: AUTO

(Shown with Optional Humidity Sensor and White Case—Only Some Screens Are Shown)



What if you could have **flexible, set-and-forget control** over the environment in your building without the expense of a large building automation system? Well, now you can, with the KMC FlexStat.

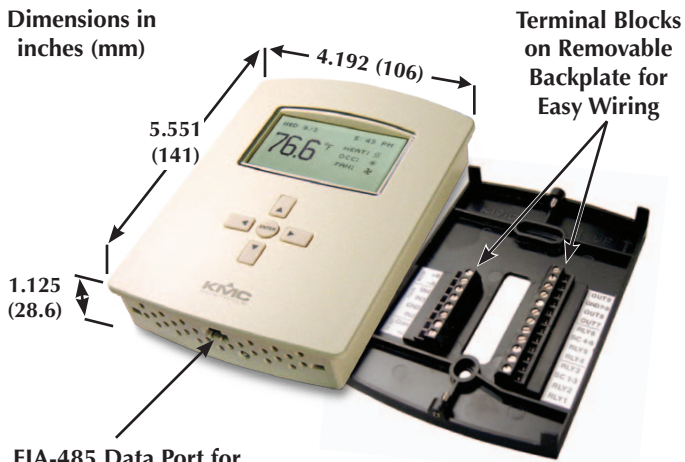
The FlexStat series of intelligent temperature/humidity/motion-sensing, wall-mounted, thermostat/controllers are native BACnet Advanced Application Controllers (B-AAC) for connection with a BACnet system. The FlexStat simplifies networked zone control for common HVAC equipment—such as packaged rooftop units, air handlers, fan coil units, and heat pumps—which can be controlled via the on-board libraries of programs built into the FlexStat. The on-board library of programs permits rapid configuration of a wide range of HVAC control applications via the FlexStat's easy-to-use display and buttons. Plus, the standard library can be customized (using BACstage™ or TotalControl™) to meet the unique site needs and application specific requirements of a particular project.

With its built-in library of applications, **just one FlexStat model can replace multiple competitor models.** With a single BAC-10163CW, for example, all these application options can be selected from the menus:

- Air handling unit, with proportional heating and cooling valves, and with optional economizer, dehumidification, and/or fan status
- Fan coil unit, 2-pipe or 4-pipe, proportional or 2-position valves, with optional dehumidification (with 4-pipe option) and/or fan status
- Heat pump unit, with up to two compressor stages, and with optional auxiliary heat, emergency heat, dehumidification, and/or fan status
- Roof top unit, with up to two H/C stages, and with optional economizer, dehumidification, and/or fan status

A one-size FlexStat “fits all.”

Dimensions in inches (mm)

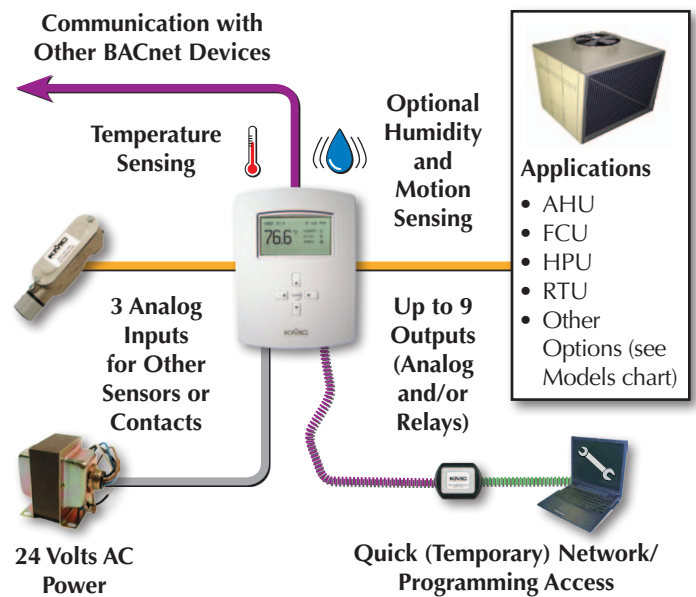


Terminal Blocks on Removable Backplate for Easy Wiring

EIA-485 Data Port for Quick Network Access

FlexStat features include:

- User-friendly, high-contrast, backlit, dot-matrix LCD display with five buttons for menu-driven configuration and operation
- Temperature sensing (standard) and optional humidity and/or motion/occupancy sensing (motion sensor has effective range of up to 33 feet)
- Up to a total mix of nine relays (binary) and analog outputs
- Three analog inputs for additional remote external sensors, such as outside air temperature, mixed air temperature, water supply temperature, fan status, and other sensors
- Six On/Off and independent heating and cooling setpoint periods per day
- Schedules can be set uniquely for each day, 5-1-1, 5-2 daily schedules, plus holidays
- Built-in alarms and trend logs
- Selectable constant or intermittent/auto fan operation in either occupied or unoccupied modes
- Built-in, factory-tested library of configurable application control sequences
- Integral energy management control with energy deadband heating and cooling setpoints and other advanced features
- Three levels of password-protected access (user/operator/administrator) prevents disruption of operation and configuration
- Real-time clock and 72-hour power (capacitor) backup for network time synchronization or full stand-alone operation
- Integral peer-to-peer BACnet MS/TP LAN network communications with configurable baud rate



FlexStats come with a printed Installation Guide in the box. A large library of additional documentation for operation, configuration, programming, application, and much more information is available on the award-winning KMC Controls web site (www.kmcccontrols.com). The web site also contains updates to firmware (that can upgrade installed FlexStats by using the KMD-5699 firmware flash upgrade kit).



All this gives you automation power and support you would expect to find in much larger building automation systems—but in a low-cost, high-value, compact device you can hang on the wall. Hang it on yours.

building your comfort zone®

Because everyone needs a little control

Model*	Outputs**	Optional Sensors***	Typical Applications
BAC-10030CW	3 Relays (Binary Outputs) (All models have 3 analog inputs)	None	<ul style="list-style-type: none"> • 1H/1C packaged and split systems • 1H 2-position economizer applications • 1H/1C heat pumps (no auxiliary or emergency heat) • Unit heaters • Single-stage cooling applications
BAC-10130CW		Humidity	<ul style="list-style-type: none"> • Same as BAC-10030CW • Dehumidification sequence (AHU)
BAC-11030CW		Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10030CW • Occupancy-based operation
BAC-11130CW		Humidity and Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10130CW • Occupancy-based operation
BAC-10036CW	3 Relays and 6 Analog Outputs	None	<ul style="list-style-type: none"> • 1H/1C, fan, and 6 universal outputs • 3-speed fan, 2- or 4-pipe FCUs with modulating valves • Central station AHUs with modulating/1/2 Heat/Cool • Variable-speed fan output • Single-stage applications
BAC-10136CW		Humidity	<ul style="list-style-type: none"> • Same as BAC-10036CW • Dehumidification sequence • Humidification sequence (AHU or 4-pipe FCU)
BAC-11036CW		Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10036CW • Occupancy-based operation
BAC-11136CW		Humidity and Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10136CW • Occupancy-based operation
BAC-10063CW	6 Relays and 3 Analog Outputs	None	<ul style="list-style-type: none"> • 2H/2C, fan • Multi-stage packaged or split systems • Multi-stage heat pumps with or without factory-packaged economizers • Central station AHUs with modulating Heat/Cool • 3-speed fan, 2- or 4-pipe FCUs with modulating or 2-position valves
BAC-10163CW		Humidity	<ul style="list-style-type: none"> • Same as BAC-10063CW • Dehumidification sequence (AHU, 4-pipe FCU, or RTU)
BAC-11063CW		Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10063CW • Occupancy-based operation
BAC-11163CW		Humidity and Motion/Occupancy	<ul style="list-style-type: none"> • Same as BAC-10163CW • Occupancy-based operation

*The standard color is white. To order the optional light almond color, remove the "W" at the end of the model number (e.g., BAC-11163C instead of BAC-11163CW). All models have a real-time clock. All models have optional discharge air temperature monitoring/trending or fan status monitoring.

**Analog outputs produce 0–12 VDC @ 20 mA maximum, and 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.

***All models have a temperature sensor and 3 analog inputs. Optional inputs include humidity and/or motion sensing. To select models by application, see the Model Selection Guide in the BAC-10000 Series Application Guide (913-019-03).