

BAC-12xxxx/13xxxx/14xxxx Series

FlexStat[™]

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Description and Application

The award-winning FlexStat is a **controller and sensor** in a single, attractive package that creates a flexible solution to stand-alone control challenges or BACnet network challenges. Temperature sensing is standard with **optional humidity, motion, and CO**₂ **sensing**. Flexible input and output configurations and built-in or custom programming ensure that a variety of application needs can be met. Such applications include single- and multi-stage packaged, unitary, and split systems (including high SEER/EER variable speed packaged equipment), as well as factory-packaged and field-applied economizers, water-source and air-to-air heat pumps, fan coil units, central station air handling units, and other similar applications.

In addition, an on-board library of programs permits a single model to be rapidly configured for a wide range of HVAC control applications. Thus, a single "one size fits all" FlexStat model can replace multiple competitor models. A single BAC-120163CW, for example, can be quickly configured for any of these application options:

- 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 (w/ 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

FlexStats also provide the capability to customize the standard library of sequences using a KMC programming tool (BACstage or TotalControl). This enables a local authorized KMC installing contractor to adapt the standard library to the unique site needs and application-specific requirements of a particular project.

BACnet over **MS/TP** communication is standard. "E" versions, with an RJ-45 jack, add BACnet over Ethernet, BACnet over IP, and BACnet over IP as Foreign Device (for communication across the Internet).

Features

Interface and Function

- User-friendly English-language menus (no obscure numeric codes) on a 64 x 128 pixel, dot-matrix LCD display with 5 buttons for data selection and entry
- Multiple display options include selectable space temperature display precision, degrees F/C toggle, rotation values, display blanking, hospitality mode, and locked mode
- Built-in, factory-tested libraries of configurable application control sequences

- Integral energy management control with optimum start, deadband heating and cooling setpoints, and other advanced features to assure comfort while maximizing energy savings
- Schedules can easily be set uniquely by the entire week (Mon.–Sun.), weekdays (Mon.–Fri.), weekend (Sat.–Sun.), individual days, and/or holidays; six On/Off and independent heating and cooling setpoint periods are available per day
- Three levels of password-protected access (user/ operator/administrator) prevent disruption of operation and configuration—plus Hospitality mode and Locked User Interface mode offer additional tamper resistance
- Integral temperature and optional humidity, motion, and/or CO₂ sensors
- All models have 72-hour power (capacitor) backup and a real time clock for network time synchronization or full stand alone operation
- Models functionally replace most Viconics and other competitors' products

Inputs

- Six analog inputs for additional configurable remote external sensors, such as remote space temperature (with averaging, highest, and lowest options), remote CO₂, OAT, MAT, DAT, water supply temperature, fan status, and other sensors
- ◆ Inputs accept industry-standard 10K ohm (Type II or III) thermistor sensors, dry contacts, or 0–12 VDC active sensors
- Input overvoltage protection (24 VAC, continuous)
- 12-bit analog-to-digital conversion on inputs

Outputs

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

Installation

 Backplate mounts on a standard vertical 2 x 4-inch wall handy-box (or, with an HMO-10000 adapter, a horizontal or 4 x 4 handy-box), and the cover is secured to the backplate by two concealed hex screws Two-piece design provides easy wiring and installation (see *Dimensions and Connectors on page 9*)

Connections

- Screw terminal blocks, wire size 14–22 AWG, for inputs, outputs, power, and MS/TP network
- "E" versions add an RJ-45 jack
- A four-pin EIA-485 (formerly RS-485) data port on the underside of the case enables easy temporary computer connection to the BACnet network (access with a KMD-5624 cable—requires use of KMD-5576 or third-party interface)

BACnet Communication and Standards

- Integral peer-to-peer BACnet MS/TP LAN network communications on all models (with configurable baud rate from 9600 to 76.8K baud)
- "E" versions add BACnet over Ethernet, BACnet over IP, and BACnet over IP as Foreign Device
- Meets or exceeds BACnet AAC specifications in the ANSI/ASHRAE BACnet Standard 135-2008

Configurability

I/O

- Up to 10 analog input objects (IN1 is space temperature, IN2–IN4 and IN7–IN9 are 0–12 VDC inputs, IN5 is reserved for humidity, IN6 is reserved for motion detection, IN10 is reserved for CO₂)
- Up to 9 analog or binary output objects

Value

- 150 analog value objects
- ◆ 100 binary value objects
- ◆ 40 multi-state value objects (with up to 16 states each)

Program and control

- ♦ 20 PID loop objects
- 10 program objects (contains a library of 5 builtin programs and customized Control Basic programming in the other 5 program objects can be done through BACstage or TotalControl)

Schedules and trends

- ♦ 2 schedule objects
- 1 calendar object
- 8 trend objects, each of which holds 256 samples

Alarms and events

- 5 notification class (alarm/event) objects
- ◆ 10 event enrollment objects

Models

If your application is a:

- FCU (Fan Coil Unit) or Packaged Unit, AHU (Air Handling Unit), or RTU (Roof Top Unit)—see all models
- HPU (Heat Pump Unit)—see the BAC-1xxx63CW models only

For more details, see *Application/Model Selection Guide on page 4*. See also the FlexStat Catalog Supplement and Selection Guide (SP-091)!

Model*	Outputs**	Optional Sensors***	Typical Applications
have CO ₂ sensors to	o add Demand Contro	l Ventilation to the applica	t have a CO ₂ sensor. BAC-1 3 xxxx/1 4 xxxx models (e.g., BAC-140136CW) tions below. DCV is only available when using an AHU, RTU, or HPU pecifications, CO2 Models Only" for more information.
BAC-1x0036CW		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-1x0136CW	3 Relays and 6 Analog Outputs	Humidity****	 Same as BAC-1x0036CW Dehumidification sequence Humidification sequence (AHU or 4-pipe FCU)
BAC-1x1036CW		Motion/Occupancy	Same as BAC-1x0036CWOccupancy-based operation
BAC-1x1136CW		Humidity and Motion/Occupancy****	Same as BAC-1x0136CWOccupancy-based operation
BAC-1x0063CW		None	 1 or 2 H and 1 or 2 C, 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-1x0163CW	6 Relays and 3 Analog Outputs	Humidity****	 Same as BAC-1x0063CW Dehumidification sequence (AHU, 4-pipe FCU, or RTU)
BAC-1x1063CW		Motion/Occupancy	 Same as BAC-1x0063CW Occupancy-based operation
BAC-1x1163CW		Humidity and Motion/Occupancy****	 Same as BAC-1x0163CW Occupancy-based operation

All models have a real-time clock.

**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 32-bit processor, an internal temperature sensor, and 6 analog inputs. All models have optional discharge air temperature monitoring/trending and fan status monitoring. Optional sensors include humidity, motion, and CO₂.
****In models with CO₂ sensors, humidity sensors come standard.

Application/Model Selection Guide

			F	lexStat	t Model	S		
	6 Rela	ys and 3	Analog (Dutputs	3 Rela	ys and 6	Analog (Dutputs
Applications and Options		BAC-1x0163CW (+ Humidity)	BAC-1x1063CW (+ Motion)	BAC-1x1163CW (+ Humidity/Motion)	BAC-1x0036CW	BAC-1x0136CW (+ Humidity)	BAC-1x1036CW (+ Motion)	BAC-1x1136CW (+ Humidity/Motion)
Packaged Unit (Air Handling Unit and Roof Top Unit)				<u> </u>				I
1 Heat and 1 Cool					~	~	~	~
1 or 2 Heat and 1 or 2 Cool (in BAC-1xxx63 RTU Menu Only)	RTU	RTU	RTU	RTU				
1 or 2 Heat and Modulating Cool					~	~	~	~
Modulating Heat and 1 or 2 Cool					~	~	~	~
Modulating Heat and Modulating Cool (in AHU Menu Only)	AHU	AHU	AHU	AHU	~	~	~	~
Opt. Outside Air Damper, Modulating	~	~	~	~	~	~	~	~
Opt. Outside Air Damper, 2 Position (in RTU Menu Only)	RTU	RTU	RTU	RTU	~	~	~	~
Opt. Fan Speed Control					~	~	~	~
Opt. Dehumidification		~		~		~		~
Opt. Humidifier						~		~
Opt. Motion/Occupancy Sensor			~	~			~	~
Opt. CO2 Sensor with DCV (Demand Control Ventilation)		BAC	-1 3 xxxx c	or BAC-1	4xxxx (se	e Note b	elow)	
Opt. IP/Ethernet BACnet Communications	Add an E to the model number: BAC-1xxxxxCEx (see Model Code)							
FCU (Fan Coil Unit)	With 3-speed fan							
2 Pipe, Modulating	~	~	~	~	~	~	~	~
2 Pipe, 2 Position	~	~	~	~				
4 Pipe, Modulating	~	~	~	~	~	~	~	~
4 Pipe, 2 Position	~	~	~	~				
Opt. Dehumidification (4 pipe only)		~		~		~		~
Opt. Humidifier (4 pipe only)						~		~
Opt. Motion/Occupancy Sensor			~	~			~	~
Opt. CO2 Sensor with DCV (Demand Control Ventilation)	DC	V N/A for	FCU ap	plications	s, but CO	2 levels s	still displa	iyed
Opt. IP/Ethernet BACnet Communications	Add an E to the model number: BAC-1xxxxxCEx (see Model Code)							
HPU (Heat Pump Unit)		1 or 2 c	ompresso	rs with au	xiliary and	d emerger	ncy heat	
Opt. Outside Air Damper, Modulating	~	~	~	~				
Opt. Dehumidification		~		~		N	/A	
Opt. Motion/Occupancy Sensor			~	~				
Opt. CO2 Sensor with DCV (Demand Control Ventilation)		BAC	-1 3 xxxx c	or BAC-1	4xxxx (se	e Note b	elow)	
Opt. IP/Ethernet BACnet Communications	Add an E to the model number: BAC-1xxxxxCEx (see Model Code		Code					

NOTE: All models have a real-time clock (see Model Code). On models with a CO2 sensor, the humidity sensor is standard and Demand Control Ventilation is only available when using an AHU, RTU, or HPU application with a modulating economizer option enabled. For the differences between the types of CO2 sensors in the BAC-13xxxx and BAC-14xxxx, see page 6. The BAC-12xxxxx has no CO2 sensor.

Model Code for BAC-1*xmhra* CEW:

BAC = BACnet Device	r = Number of Relay Outputs (3 or 6 standard, or 5 relays & 1 triac)
1 = Model Series	a = Number of Analog Outputs (3 or 6)
x = CO2 Sensor Type (3 or 4) or None (2)	C = Real-Time Clock (RTC standard on all models)
m = Motion Sensor (1) or None (0)	E = IP/Ethernet Communications Option (no $E = MS/TP$ only)
h = Humidity Sensor (1) or None (0)	W = White Color (no W = light almond)

NOTE: See also *Models on page 3*. For details about the CO₂ model options, see *Specifications, CO2 Models Only on page 6*. See also the FlexStat Catalog Supplement and Selection Guide (SP-091)!

Specifications, General

Supply Voltage	24 VAC (+20%/–10%), Class 2 only
Supply Power	13 VA (not including relays)
Outputs (3/6 or 6/3)	Binary outputs (NO, SPST, Form "A" relays) carry 1 A max. per relay or a total of 1.5 A per bank of 3 relays (relays 1–3 and 4–6) @ 24 VAC/VDC
	Analog outputs produce 0–12 VDC, 20 mA maximum
External Inputs (6)	Analog 0–12 VDC (active, pas- sive contacts, 10K thermistors)
Connections	Wire clamp type terminal blocks; 14–22 AWG, copper
	Four-pin EIA-485
	(Opt.) eight-pin Ethernet jack
Display	64 x 128 pixel dot matrix LCD
Case Material	White (standard) or light al- mond flame-retardant plastic
Dimensions*	5.551 x 4.192 x 1.125 inches (141 x 106 x 28.6 mm)
Weight*	0.48 lbs. (0.22 kg)
Approvals	
UL	UL 916 Energy Management Equipment listed
BTL	BACnet Testing Laboratory listed as Advanced Applica- tion Controller (B-AAC)
FCC	FCC Class B, Part 15, Subpart B and complies with Canadian ICES-003 Class B**

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Humidity Sensor (optional internal)

Sensor Type	CMOS	
Range	0 to 100% RH	
Accuracy @ 25°C	±2% RH (10 to 90% RH)	
Response Time	Less than or equal to 4 seconds	
Temperature Sensor (without humidity sensor)		
Sensor Type	Thermistor, Type II	
Accuracy	±0.36° F (±0.2° C)	
Resistance	10,000 ohms at 77° F (25° C)	
Operating Range	48 to 96° F (8.8 to 35.5° C)	

Temperature Sensor (with humidity sensor)

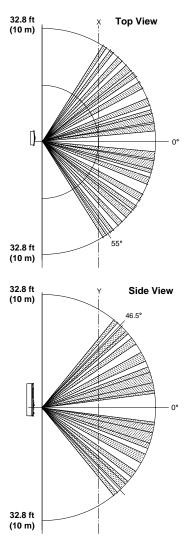
r	· · · · · · · · · · · · · · · · · · ·
Sensor Type	CMOS
Accuracy	$\pm 0.9^{\circ}$ F ($\pm 0.5^{\circ}$ C) offset from
	40 to 104° F (4.4 to 40° C)
Operating Range	36 to 120° F (2.2 to 48.8° C)
Environmental Limi	its*
Operating	34 to 125° F (1.1 to 51.6° C)
Shipping	–22 to 140° F (–30 to 60° C)
Humidity	0 to 95% RH (non-condensing)
Warranty	5 years (from mfg. date code)

*NOTE: Except for CO₂ sensor models—see the next page for those specifications.

Specifications, Motion Sensor

Motion Sensor (Opt.) Passive infrared with approx. 10 meter (32.8 feet) range (for details about operation of the motion sensor, see the FlexStat Application Guide)

Motion/Occupancy Sensor Detection Performance



Specifications, CO2 Models Only



Dimens	sions	5.551 x 5.192 x 1.437 inches (141 x 132 x 36.5 mm)
Weight		0.5 lbs. (0.28 kg)
Enviror	nmental Lim	its
Opera	nting	34 to 122 ° F (1.1 to 50 ° C)
Approv	rals	FCC Class A , Part 15, Subpart B and complies with Canadian ICES-003 Class A
NOTE:	See the previous page for specifications in common with other models.	
NOTE:	The CO ₂ mo	odels are not approved for

residential applications.

CO ₂ Sensor	BAC-13xxxx	BAC-14xxxx	
Applications	For zones with occupied/unoccupied times*	For zones with continuous occupancy *	
Method	Non Dispersive Infrared (NDIR), with ABC Logic*	Non Dispersive Infrared (NDIR), dual channel*	
Calibration	Self-calibrates over several weeks*	Self-calibrates approximately once every 24 hours*	
Typical Life of Sensor	15 years	10 years	
Measurement Range	400 to 2000 ppm	0 to 2000 ppm	
Accuracy (at nominal operating temperature)	±35 ppm @ 500 ppm, ±60 ppm @ 800 ppm, ±75 ppm @ 1000 ppm, ±90 ppm @ 1200 ppm	±75 ppm or 10% of reading (whichever is greater)	
Altitude Correction	Configurable from 0 to 32,000 feet		
Pressure Dependence	0.135 of reading per mm Hg		
Temperature Dependence	0.2% FS (full scale) per °C		
Stability	< 2% of FS over life of sensor	< 5% of FS or < 10% reading annual over life of sensor	
Response Time	< 2 minutes for 90% step change typical		
Warm Up Time	< 2 minutes (operational) and 10 minutes (maximum accuracy)		
*The BAC-13xxxx series has been certified to comply with CA Title 24, Section 121(c), as well as sub-paragraph 4.F. See explanations below.			

The BAC-13xxxx series uses Automatic Background Calibration Logic, or ABC Logic, a patented selfcalibration technique designed to be used in applications where concentrations will drop to outside ambient conditions (approximately 400 ppm) at least three times in a 14 day period, typically during unoccupied periods. With ABC Logic enabled, the sensor will typically reach its operational accuracy after 25 hours of continuous operation if it was exposed to ambient reference levels of air at 400 ± 10 ppm CO₂. The sensor will maintain accuracy specifications with ABC Logic enabled, given that it is at least four times in 21 days exposed to the reference value and this reference value is the lowest concentration to which the sensor is exposed. ABC Logic requires continuous operation of the sensor for periods of at least 24 hours.

NOTE: The BAC-13xxxx series, with ABC Logic, has been certified to comply with **CA Title 24**, **Section 121(c)**, **as well as sub-paragraph 4.F** that specifies accuracy will be maintained within tolerance for a minimum of 5 years without recalibration and that a detected sensor failure will cause the controller to take appropriate corrective action.

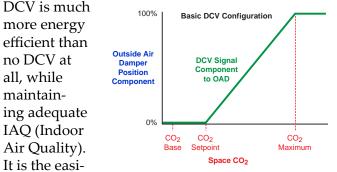
The BAC-14xxxx series, for zones with **continuous occupancy**, has a dual channel sensor. A CO_2 channel measures gas concentration, and a reference channel measures the sensor signal intensity. Self-calibrations are performed approximately every 24 hours using the reference channel. During the self-calibration the sensor ppm reading is frozen and will not react to changing CO_2 .

NOTE: See also the Demand Control Ventilation (DCV) section on the next page.

Demand Control Ventilation (DCV)

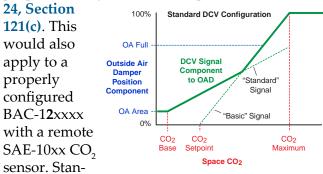
When using applications with a modulating economizer option, the three types of Demand Control Ventilation (DCV) configurations available are:

 Basic—Provides simple DCV, modulating the outside air damper in direct response to the current CO₂ level with respect to its setpoint. Basic



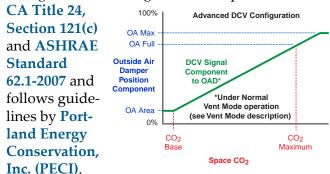
est DCV method to configure. However, where VOCs, radon, or other pollutants become excessive during unoccupied times (with no ventilation), the FlexStat's Standard or Advanced DCV configuration is recommended.

 Standard—When the BAC-13xxxx settings are properly configured, this complies with CA Title



dard DCV, under most conditions, is somewhat less energy efficient than Basic, but it enhances IAQ.

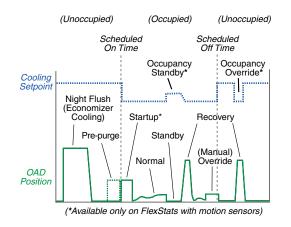
 Advanced — When the settings are properly configured, this configuration complies with



Although Advanced DCV is the most complex to configure, it is more energy efficient than Standard while still optimizing IAQ. Although BAC-12xxxx FlexStats do not have a builtin CO₂ sensor, they still have DCV control sequences available. When DCV is enabled in these models, IN9 is assumed to be connected to an external KMC SAE-10xx CO₂ sensor. BAC-13xxxx/14xxxx FlexStats also have the external sensor option, and if used, the highest of the two readings (internal vs. external) will be used to control DCV sequences. The CO₂ ppm display (when enabled) also shows the highest of the two levels.

- NOTE: The three DCV Configuration graphs on the left show the DCV **component** of the signal to the outside air damper. Depending on the conditions and the DCV configuration, the signal to the damper might be controlled by Minimum Position, Economizer Loop, or other components. The **maximum** of these component values is used, not the sum of them. (If there is a Low Limit alarm, however, these signals are overridden, and the damper is closed.)
- NOTE: DCV is only available when using an AHU, RTU, or HPU application with a modulating economizer option enabled. Without that configuration, DCV will not appear in menus, but the CO_2 ppm readings will (unless turned off in the User Interface menu) still show on the lower right of the display.

The graph below shows an example of how a cooling setpoint and the outside air damper position could be efficiently controlled by a FlexStat's built-in combination of schedule, motion sensor (configured for occupancy standby and occupancy override), and CO₂ sensor (configured for Advanced DCV).



For more details about DCV configuration and operation, see the **FlexStat Operation Guide** and **FlexStat Application Guide**.

Accessories

Damper (OAD/RTD) Actuators (Fail-Safe)

MEP-4552	5.6 ft ² max. damper area, 45 in- lb., proportional, 19 VA
MEP-7552	22.5 ft ² max. damper area, 180 in-lb., proportional, 25 VA
MEP-7852	40 ft ² max. damper area, 320 in-lb., pro- portional, 40 VA

Mounting Hardware

HMO-10000	Horizontal or 4 x 4 handy box wall mounting plate for BAC-12xxxx models
	(not needed for BAC- 13xxxx/14xxx models), light almond (shown)
HMO-10000W	HMO-10000 in white
HPO-1602	Replacement backplate for BAC-12xxxx models
HPO-1603	Replacement backplate for BAC-13xxxx/14xxxx models (shown)
SP-001	Screwdriver (KMC branded) with flat blade (for termi- nals) and hex end (for cover screws)

Network Communications and Firmware

HTO-1103	FlexStat firmware upgrade and BAC- 14xxxx CO ₂ calibra- tion adapter kit
KMD-5567	Network surge suppressor
KMD-5575	Network repeater/ isolator
KMD-5576	EIA-485 to USB Communicator
KMD-5624	PC data port (EIA-485) cable (FlexStat to USB Commu- nicator)—included with the KMD-5576 (buy for third-party EIA-232 interfaces)

Relays (External)

REE-3211	(R1/R2/R3) SPDT, multi- voltage control relay, 1.2 VA	45
REE-3112	(HUM) SPDT, 12/24 VDC control relay	

Sensors (External)

CSE-110x	(FST) differential air pressure switch	
STE-1402	(DAT) duct temperature sensor w/ 8" rigid probe	
STE-1416	(MAT) 12' (flexible) duct averaging temp. sensor	
STE-1451	(OAT) outside air temp. sensor	
STE-6011	Remote space temp. sensor	KNINE
SAE-10xx	Remote CO ₂ sensor, space or duct	
STE-1454/1455	(W-TMP) 2" strap-on water temp. sensor (with or with enclosure)	

Transformers, 120 (or more) to 24 VAC (TX)

XEE-6111-040	40 VA, single-hub
XEE-6112-040	40 VA, dual-hub
XEE-6311-050	50 VA, dual-hub
XEE-6311-075	75 VA, single-hub
XEE-6311-100	96 VA, dual-hub

Valves (Heating/Cooling/Humidification)

VEB-43xxxBCL

(HUMV/CLV/HTV) Fail-safe control valve, w/ MEP-4x52 proproportional actuator, 20 VA

VEB-43xxxBCK

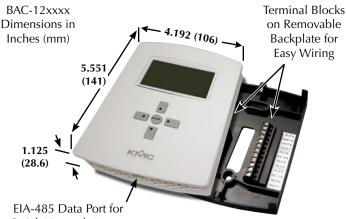
(VLV/CLV/HTV) control valve w/ MEP-4002 proportional actuator, 4 VA



VEZ-4xxxxMBx (VLV/CLV/HTV) failsafe control valve, 24 VAC, 9.8 VA

NOTE: For details, see the respective product data sheets and installation guides. See also the **FlexStat Application Guide**.

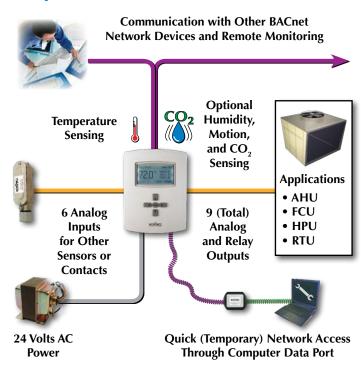
Dimensions and Connectors



Quick Network Access

NOTE: Two-piece design allows field rough-in and termination of field wiring to the backplate without needing the FlexStat at the site—permitting FlexStats to be bulkconfigured off-site and plugged into the wired backplates at a later time if desired.

Sample Installation



Product and Documentation Awards

- Gold medal in the Networked/ BAS category of *Consulting-Specifying Engineer* magazine's Product of the Year competition (September 2010)
- Editors' Choice product in *Commercial Building Products* (October 2010)
- Winner in the HVAC & Plumbing category of *Green Thinker Network*'s Sustainability 2012 competition (April 2012)
- FlexStat support documents also won an Award of Merit in the 2009–2010 publications competition sponsored by the Chicago Chapter of the Society for Technical Communication (April 2010)









Support

FlexStats come with a printed Installation Guide. Additional award-winning resources for configuration, application, operation, programming, upgrading and much more are available on the KMC Controls web site (www.kmccontrols.com). To see all available files, log-in to the KMC Partners site.



NOTE: For specifications on the older BAC-10000 series FlexStats (with only three external inputs and no Ethernet or CO_2 options), see the **BAC-10000 Series FlexStat Data Sheet** (913-035-01).

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