

CONTEMPORARY CONTROLS®

BASstat Series BACnet Thermostats

The BASstat series of BACnet-compliant wired or wireless communicating thermostats are BTL listed to ensure effortless integration into BACnet networks. These thermostats are suited for single or multi-stage, binary or analog output control applications such as RTU or Fancoil units. Fully configurable control algorithm parameters allow adaptability to the application. PID algorithm applied to multi-stage on/off control saves energy. Inputs for remote occupancy sensor, door / window contact, hotel key, or network command from Building Automation System allow for additional energy savings. Digital display with graphical icons is easy to read and understand.

Choice of wired (BACnet MS/TP) or wireless (BACnet/IP over Wi-Fi) communication:

Wired:

- BACnet MS/TP
- Baud rates 9.6Kbps - 76.8Kbps

Wireless:

- BACnet/IP over Wi-Fi (IEEE 802.11 b/g)
- Web page configuration for Wi-Fi parameters
- Easy initial Wi-Fi configuration by connecting to BASstat as an Access Point using PC, smart phone, or tablet
- WPA2-PSK(AES) secure Wi-Fi authentication
- Access Point and Infrastructure Wi-Fi network modes
- DHCP support

Common Features:

- 24VAC (+/- 10%) power input
- Digital Display with graphical icons, °C or °F display



- Single or Multistage, Binary or Analog Outputs for RTU or Fancoil applications
- BTL listed
- Manual or Auto-changeover Modes
- Occupied / Unoccupied modes with 2 sets of set points
- Remote Occupancy sensor input
- Door / Window / Hotel key energy-saving contact input (N.O. or N.C.)
- Effective run time accumulation for energy consumption calculations
- Built-in temperature sensor
- Remote temperature sensor input (NTC Thermistor 3kΩ)
- Fully Configurable Algorithm control parameters: Deadband, Stage Differential, Stage Width, Integral Time, Short Cycle, Cooling Short Cycle Delay Time, Maximum Cycles per Hour

- Set point range 0-50° C/32-122° F (default: 10-30° C/50-86° F, adjustable)
- Non-volatile memory (EEPROM) retains user settings during power loss
- Lockable buttons / user interface
- Operating Environment: 0-50°C, 5-95% RH (non-condensing)
- Wiring: 14 to 22 AWG wires or up to 2x 1.5mm wires
- Dimensions: 94×118×34 mm (W × H × D)
- Mounts directly onto wall, panel, standard 65×65 mm junction box (hole pitch 60 mm) or standard 2×4 inch vertical junction box (hole pitch 83.5 mm)

The BASstat's backlit LCD display is large and easy to read even from a distance. It incorporates graphical icons to aid visual indication of current state of operation. Several icons indicate parameters such as: Active Mode, Cooling stage 1 or 2, Heating stage 1 or 2, Ventilation Only, Fan Active, Occupied / Unoccupied, Door / Window contact, and Clock icon to indicate Short Cycle Delay or Max Cycles per hour active state. These icons are very useful in indicating the thermostat's current state of operation.

Five buttons on the BASstat allow users to manipulate set point, change modes, turn the thermostat ON/OFF, and more. Pressing the Up/Down buttons for more than 3 seconds can manually toggle the thermostat from occupied/unoccupied modes, where occupancy sensors are not an option. These buttons are lockable in a configurable manner. Some or all buttons can be locked for application flexibility, making the stat suitable for applications where limited user control is allowed.

Ordering Information

Model	RoHS	Description	
BAST-221 C-B2	✓	BACnet MS/TP Communicating Thermostat 2-Heat, 2-Cool, 1-Fan, Wired	Coming Soon
BAST-221 C-BW2	✓	BACnet/IP Communicating Thermostat 0-10V Heat, 0-10V Cool, 1-Fan, Wi-Fi	Coming Soon
BAST-221 C-A2	✓	BACnet MS/TP Communicating Thermostat 2-Heat, 2-Cool, 1-Fan, Wired	Coming Soon

<https://www.ccontrols.com/basautomation/basstat>

Worldwide Locations

United States
Contemporary Control Systems, Inc.
 2431 Curtiss Street
 Downers Grove, IL 60515 USA
 +1 630 963 7070
info@ccontrols.com
www.ccontrols.com

Germany
Contemporary Controls GmbH
 Fuggerstraße 1 B
 04158 Leipzig
 Germany
 +49 341 520359 0
cgc.info@ccontrols.com
www.ccontrols.com

United Kingdom
Contemporary Controls Ltd
 14 Bow Court
 Fletchworth Gate
 Coventry CV5 6SP
 United Kingdom
 +44 (0)24 7641 3786
ccl.info@ccontrols.com
www.ccontrols.com

China
Contemporary Controls (Suzhou) Co. Ltd
 11 Huoju Road
 Science & Technology
 Industrial Park
 New District, Suzhou
 PR China 215009
 +86 512 68095866
info@ccontrols.com.cn
www.ccontrols.asia