



Membrane Pushbuttons for Wipedown Cleaning

Features & Options

- Designed for Operating Rooms and Clean Rooms
- Temperature and Humidity Setpoint Adjustment
- Large Easy-to-Read Display
- Membrane Pushbuttons for Wipedown Cleaning
- 2% RH Accuracy
- Two Year Warranty

The BAPI-Stat 3 is designed for operating rooms, clean rooms and elder care facilities. It features a large display and membrane pushbuttons for wipedown cleaning. It is available with temperature and humidity measurement, temperature and humidity setpoint and occupant override.



BAPI-Stat 3 Units (shown with optional humidity setpoint)

The unit includes a number of field adjustments including °F or °C display, temperature and humidity offset and setpoint lockout. The display can also be set to show a large temperature and small %RH reading, a large %RH and a small temperature reading, or to alternate between the two. This unit can be configured with up to four transmitted variables. Contact your BAPI representative for details.

For detailed specs on the individual Sensors & Transmitters, turn to the Sensors section.

Specifications

Power:

- 10 to 35 VDC for 4 to 20 mA or 0 to 5 VDC Outputs
- 15 to 35 VDC for 0 to 10 VDC Output
- 12 to 28 VAC for 0 to 5 VDC Output
- 15 VAC to 28 VAC for 0 to 10 VDC Output

Note: 15 to 24 VDC recommended for VDC unit.
VAC units require a separate pair of shielded wires.

Power Consumption:

- 60 mA max. DC: 4 to 20 mA or 0 to 5 VDC Outputs
- 10 mA max. DC: 0 to 10 VDC Output
- 1.44 VA max. AC: 0 to 5 VDC Outputs
- 0.2 VA max. AC: 0 to 10 VDC Output

RH/Temp Sensor Construction:

- Communicating Integrated Circuit
- Humidity: Capacitive Polymer, ±2% RH (10% to 90%) @25°C, Fully Compensated
- Temp: Semiconductor Band Gap, ±0.3°C @ 25°C

Optional Direct Temp. Sensor:

- Thermistor, RTD or Semiconductor

Mounting:

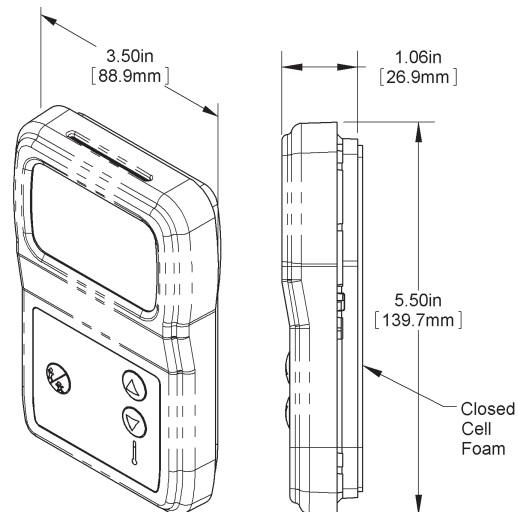
- 2" x 4" J-box or drywall mount - screws provided

Environmental Specifications:

- Temperature: 32 to 122 °F (0 to 50 °C)
- Humidity: 0 to 95%, non-condensing

Wiring: 2 to 5 pair of 16 to 22 AWG*

Material & Rating: ABS Plastic - UL 94, V-0



*BAPI recommends that you do not run wiring for room units in the same conduit as line voltage wiring or with wiring used to supply highly inductive loads such as motors, generators and coils.





BAPI-Stat 3™ Room Units

Humidity or Combination Temp/Humidity Sensors

B5

Ordering Grids without List Prices are available on our website at www.bapihvac.com

Ordering Information		BAPI-Stat 3 Room Sensors - Temperature, Humidity or Combination														
BA/BS3 BAPI-Stat 3 Style Room Sensor																
Temperature Display Mode																
F	Temperatures Displayed in °F															
C	Temperatures Displayed in °C															
Humidity Sensor Accuracy (skip if ordering a temperature only unit)																
2	Accuracy in % for the Relative Humidity Output (i.e. ±2% RH)															
Channel # 1* - T, H, R are placeholders for the range options. (See inset charts)																
-0	T	Temperature Output, 4 to 20 mA														
-1	T	Temperature Output, 0 to 5 V														
-2	T	Setpoint Output, Temperature 4 to 20 mA														
-3	T	Setpoint Output, Temperature 0 to 5 V														
-4	H	Setpoint Output, %RH 4 to 20 mA														
-5	H	Setpoint Output, %RH 0 to 5 V														
-6	T	Temperature Output 0 to 10V														
-7	T	Setpoint Output, Temperature 0 to 10V														
-8	H	Setpoint Output, %RH 0 to 10V														
Channel # 2* - T, H, R are placeholders for the range options. (See inset charts)																
-10	H	%RH Output, 4 to 20 mA														
-11	H	%RH Output, 0 to 5 V														
-12	T	Setpoint Output, Temperature 4 to 20 mA														
-13	T	Setpoint Output, Temperature 0 to 5 V														
-14	H	Setpoint Output, %RH 4 to 20 mA														
-15	H	Setpoint Output, %RH 0 to 5 V														
-16	H	%RH Output, 0 to 10 V														
-17	T	Setpoint Output, Temperature 0 to 10 V														
-18	H	Setpoint Output, %RH 0 to 10 V														
Optional Additional Outputs Ch 3 & 4 - T, H, R are placeholders for range options. (See inset charts)																
-20	T	R	G	Setpoint Output, Temperature Resistive w/ Override (DF is wired to Channel 3 & 4)												
-21	T	R	G	Setpoint Output, Temperature Voltage w/ Override (Common Ground Required)												
-22	H	R	G	Setpoint Output, %RH Resistive with Override (DF is wired to Channel 3 & 4)												
-23	H	R	G	Setpoint Output, %RH Voltage with Override (Common Ground Required)												
-24	T	R	G	Setpoint Output, Temperature Resistive without Override (DF is wired to Channel 3 & 4)												
-25	T	R	G	Setpoint Output, Temperature voltage without Override (Common Ground required)												
-26	H	R	G	Setpoint Output, %RH Resistive without Override (DF is wired to Channel 3 & 4)												
-27	H	R	G	Setpoint Output, %RH Voltage without Override (Common Ground required)												
-28				G Override Only [High Ω -> Low Ω -> High Ω] (DF is wired to Channel 3 & 4)												
-29				G Override Only [5 V -> 0 V -> 5V] (Common Ground required)												
Optional Override Ch 3 or 4 - dry contact																
-60				G Dry Contact Override Ch4 (Only available as Common Ground "-60CG")												
-61				G Dry Contact Override Ch5 [Temp - Temp]												
Optional Sensor Type Ch 5 (if resistive sensor required)																
-1375	1K Platinum RTD, 1,000 Ω @ 0 °C, 3.75 Ω/°C temp. coeff.															
-1NI	1K Ω Nickel RTD, 1,000 Ω @ 21°C, 5 Ω/°C temp. coeff.															
-1	1K Platinum RTD, 1,000 Ω @ 0 °C, 3.85 Ω/°C temp. coeff.															
-2	2K Silicon RTD, 2,000 Ω @ 20 °C, 8 Ω/°C temp. coeff.															
-18	1.8K Thermistor, 1,800 Ω @ 25 °C															
-3	3K Thermistor, 3,000 Ω @ 25 °C															
-33	3.3K Thermistor, 3,300 Ω @ 25 °C															
-102	10K-2 Thermistor, 10,000 Ω @ 25 °C															
-103	10K-3 Thermistor, 10,000 Ω @ 25 °C															
-10311	10K-3[11K] Therm., 5,238 Ω @ 25 °C, 11kΩ shunt resistor															
-20	20K Thermistor, 20,000 Ω @ 25 °C															
-50	50K Thermistor, 50,000 Ω @ 25 °C															
-100	100K Thermistor, 100,000 Ω @ 25 °C															
-592	AD592 Semiconductor, 273 μA @ 0 °C															
-ES	External Sensor connection. 10K-2 thermistor purchased separately.***															
Optional Communication Jack																
-C11L	RJ11 (4 pin) Style Jack with Leads															
-C11LT	RJ11 (4 pin) Style Jack w/ Leads and Terminal Block															
-C35L	3.5 mm Phono Jack w/ Leads Attached															
-C35LT	3.5 mm Phono Style Jack w/ Leads and Term. Block															
-C22L	RJ22 (4 pin) Style Jack with Leads Attached															
-C22LT	RJ22 (4 pin) Style Jack with Leads and Terminal Block															
Optional Test & Balance Switch**																
-TB	Three Position Switch - "Low" & "High" values vary, "Normal" is live sensor value, call for details.**															
Keypad Color Must Select One																
-GRY	Gray Keypad Color															
-OFW	Off White Keypad Color															
EXAMPLE																
BA/BS3	F	2	0	C	-10	M	-24	C	80	CG	-61	CG	-102	-C35L	-TB	-GRY
Example Part Number: BA/BS3F2-0C-10M-24C80CG-61CG-102-C35L-TB-GRY																
Your Part Number:																

R = Output Range Designator		
Designator	Output Range	Span
00	0 to 5 V	5 Volts
01	1 to 5 V	4 Volts
02	3.7 to 0.85 V	2.85 Volts
03	5 to 0 V	5 Volts
04	4.2 to 1.2 V	3 Volts
10	0 to 10 V	10 Volts

20	889 to 111 Ω	778Ω
21	792 to 208 Ω	584Ω
22	695 to 305 Ω	390Ω
23	674 to 274 Ω	400Ω
24	597 to 305 Ω	292Ω
25	800 to 1200	400Ω
26	909 to 1309	400Ω
27	1800 to 2200	400Ω
28	866 to 1286	400Ω

40	0 to 1 kΩ	1 kΩ
41	500 to 1500 Ω	1 kΩ
42	2 to 3 kΩ	1 kΩ
43	249 to 1249 Ω	1 kΩ
44	10 to 11 kΩ	1 kΩ
45	12.5K-11.5K Ω	1 kΩ
46	1K to 0 Ω	1 kΩ
47	182 to 1182 Ω	1 kΩ

50	0 to 5 kΩ	5 kΩ
51	7.87k to 2.87kΩ	5 kΩ
60	0 to 10 kΩ	10 kΩ
61	15 to 5 kΩ	10 kΩ
62	9577 to 1422 Ω	10 kΩ
63	1 to 11 kΩ	10 kΩ
64	200 to 10200	10 kΩ

80	0 to 20 kΩ	20 kΩ
81	4.75 to 24.75 kΩ	20 kΩ
82	6.19 to 26.19 kΩ	20 kΩ
83	7.87 to 27.87 kΩ	20 kΩ
84	10 to 30 kΩ	20 kΩ

T = Temperature, Output & Display Range		
	°F	°C
A	-3 to +3	-3 to +3
B	-5 to +5	-5 to +5
C	50 to 90 °F	10 to 32 °C
D	55 to 85 °F	13 to 30 °C
E	60 to 80 °F	15 to 27 °C
F	65 to 80 °F	18 to 27 °C
G	45 to 96 °F	7 to 35 °C
J	68 to 78 °F	20 to 26 °C
K	65 to 95 °F	18 to 35 °C
L	70 to 74 °F	21 to 23 °C
P	-2 to +2	-2 to +2
X	40 to 80 °F	4 to 27 °C

H = Relative Humidity Range	
Designator	%RH
M	0 to 100
N	35 to 70

G = Connection Configuration	
Designator	Type
CG	Common Grnd
DF	Differential Grnd

All ranges and options may not be shown here, call BAPI for additional options or with questions about this ordering grid
 * Channel 1 or 2 are Common Ground
 ** Test & Balance is only available with Direct Sensor Type Output
 ***Must use a 10K-2 thermistor for the External Sensor option. Thermistor is purchased separately. (25' max) This option is only available on units without

