Beanbag Thermostat 600 series Quick installation guide



Suitable for FCU systems

Prerequisites

For installation

Tools / things you may need:



Philips head



Philips head screw driver

Drill machine





Wire stripper

Hammer







Wall anchors and screws

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Identification sleeves

Measuring tape

For commissioning

To commission your system, you need:





Router with internet









version 11.0 and above



Lollipop (version 5.0) and above





Beanbag mobile app

Prerequisites

For network configuration

Router specifications

- Configure a dedicated SSID for Beanbag Cool on router / AP
- · Choose an SSID minimum 5 characters
- · Choose a password minimum 8 characters
- · Set the SSID broadcast to Disabled or Hide for enhanced security
- Set security to WPA/WPA2/Open

Wi-Fi specifications

802.11 B/G, 2.4 GHz wireless router

Note: Disable 'N', if enabled previously.

Wi-Fi signal strength 0 to (-) 60 dBm

Good to know *

- · Data consumption- Approx 0.5 MB per device per day
- Wi-Fi bandwidth approximately 5 Kbps per device
- Number of connections (Optimal) per access point- Depends on the type of router installed. May lead to frequent disconnections, as number increases beyond the specified limit.
 - * Numbers indicative only

Technical specifications

Mechanical Dimensions Case material Weight Mounting		105(H) x 105(W) x 35(D) PC FR 160.5 gms Snap-fit wall mount	
Power supply	230 V variant	90 -265 V, 50 – 60 Hz	
	24 V AC variant	21 -27 V, 50 - 60 Hz	
Output	230 V variant	3 Amp Max.	
	24 V AC variant	0 -10 V	
Environmental Impulse voltage rating Enclosure protection Pollution degree Operating temperature range Storage temperature range Humidity range Set-point range		Cat II, 2.5 kV IP30 2 0°C to +50°C -20°C to +70°C 10 to 95% 18°C to 30°C	
Compliance Standards		EN 60730-1, EN 60730-2-9 Radio ETSI EN 300 328	

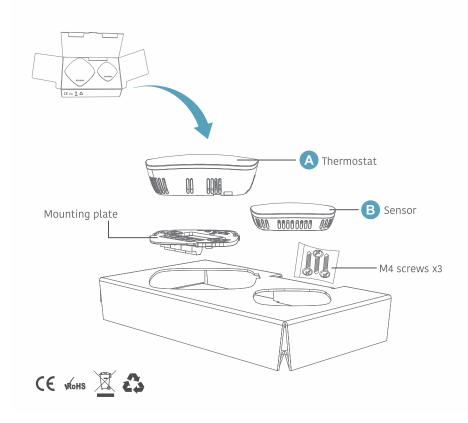


Installation

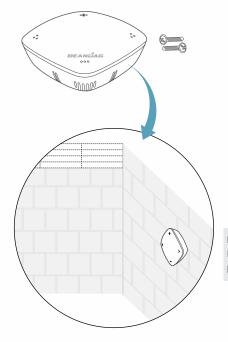


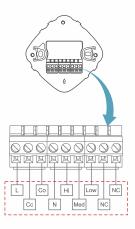
Disconnect power before installation

In the box



A Beanbag Thermostat 600 series





Note: These pin descriptors may vary with the variant. For the actual description, refer the mounting plate/product package.

A1. Identify and label the wires

1 The following chart describes the control function for each wire in the Thermostat. Identify, map, label and connect your wires accordingly. The labels are variant specific and may differ with thermostat variants.

Pin No.		230 V	24 V modulating valve		
PIII NO.	Label	Pin description	Label	Pin description	
1	L	Line voltage 230 V	24V	Line voltage 24 VAC	
2	Сс	Cooling valve closed	Y+	Control output 0-10 Vdc	
3	Со	Cooling valve open	Y-	Neutral 24 VAC	
4	N	Neutral/Ground	Com	Neutral 24 VAC	
5	Hi	Fan speed high	Hi	Fan speed high	
6	Med	Fan speed medium	Med	Fan speed medium	
7	Low	Fan speed low	Low	Fan speed low	
8	S1/Hc	Key tag AC input 1/Heat valve closed	Нс	Heat valve closed	
9	S2/Ho	Key tag AC input 2/Heat valve open	Но	Heat valve open	

When installing for the first time, identify the wires and label accordingly

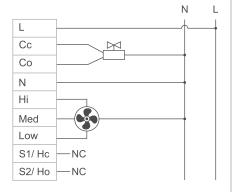


If replacing, take a picture of your old thermostat connections and label accordingly

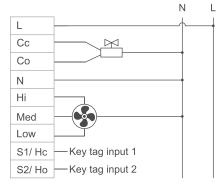


(i) Connection diagrams

230 V (2 way valve)

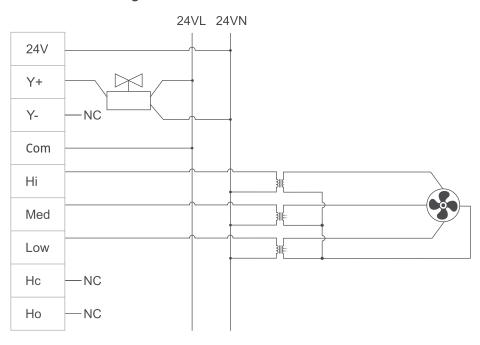


230 V (2 way valve, key tag variant)



(i) Connection diagrams

24 volt modulating valve 3 wire

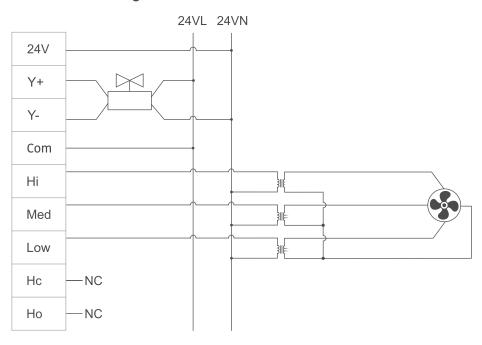


Isolation relay/transformer circuit



(i) Connection diagrams

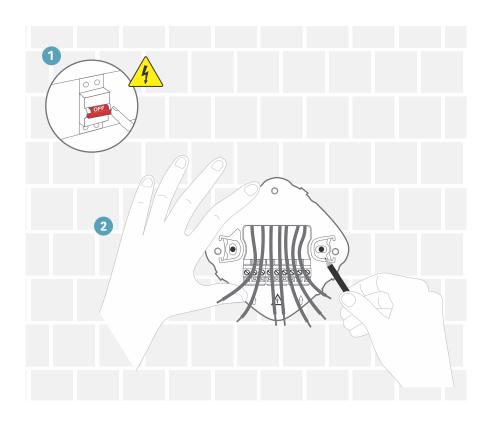
24 volt modulating valve 4 wire



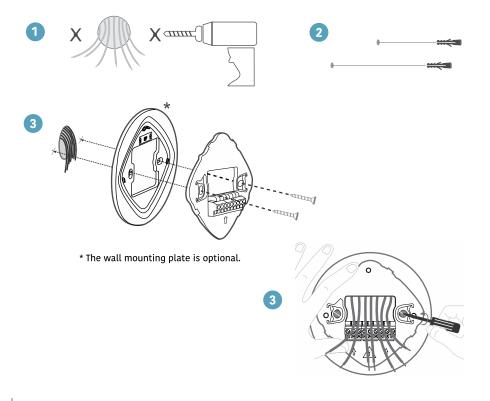
Isolation relay/transformer circuit



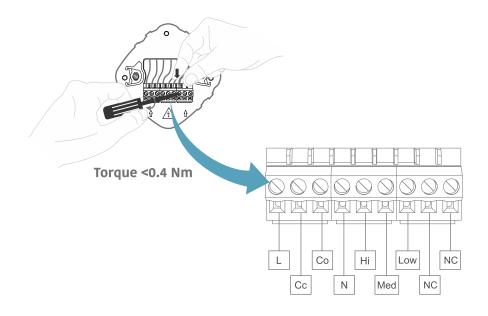
A2. Mark out the mounting position



A3. Drill the holes and secure the mounting plate

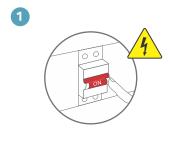


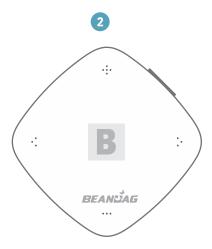
A4. Make connections



Note: These pin descriptors may vary with the variant. For the actual description, refer the mounting plate/product package.

A6. Power On the thermostat and check the display

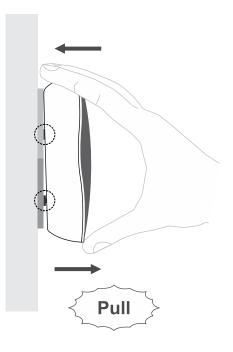




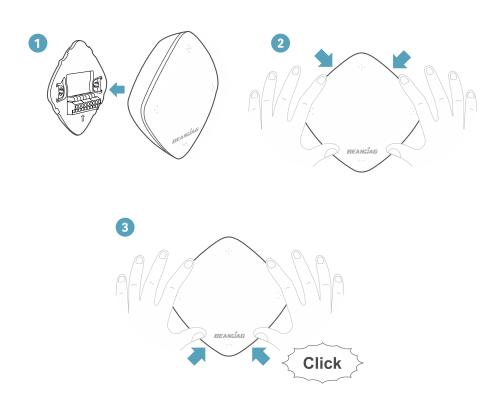
i Demounting the thermostat



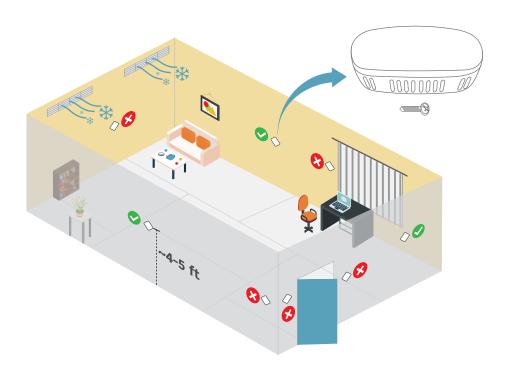




A5. Mount the thermostat



B Beanbag External Temperature Sensor 110

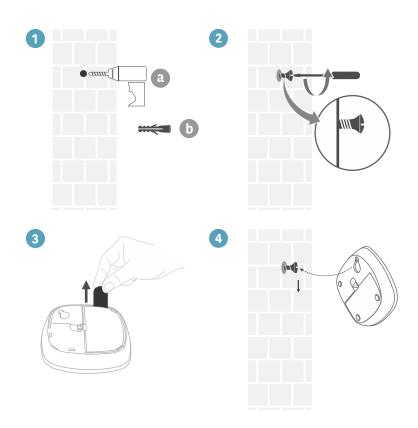


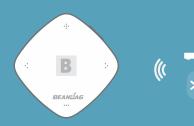
Note: Identify appropriate mounting location for the external temperature sensor

Technical specifications

Size (mm)	72(H) x 72(W) x 20(D)		
Battery	Two AAA size batteries (included) Up to 5-year battery life		
Weight	58 grams approx		
Comms. type	BLE		
Comms. range	Up to 10 meters from the Thermostat (Range can vary depending on your home's construction, wireless interference and other factors)		
Operating temperature	0° to 50°C		
Compliance	 EN 301 489 -1 (Radio EMC) EN 301 489 -17 (Radio EMC broad band data transmission) RoHS Directive EN 300 328 - 2.4 GHz wideband 		

Mount and Power On





3G/4G



Commissioning

Download the Beanbag Cool mobile application



Commissioning Do's and Don'ts

Sign in to the app and follow the instructions to complete the commissioning process. However, please keep in mind the following, before/during the commissioning process:

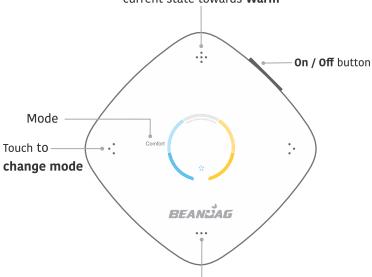
Before commissioning:

- 1. Ensure the device to be commissioned is on the same Wi-Fi network as that of the mobile.
- 2. Ensure that your Wi-Fi is turned ON and your cellular data is turned OFF.
- 3. Keep the Wi-Fi SSID password ready for commissioning.

Display after commissioning: Mode 1 - Comfort

Display and key functions

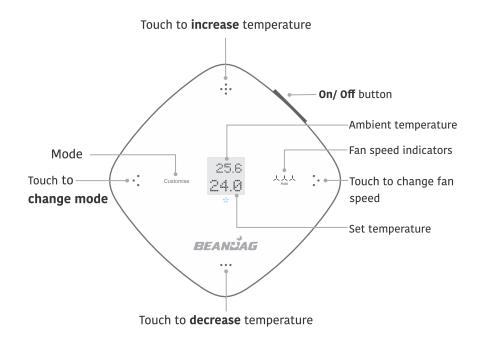
Touch to change band setting from the current state towards **Warm**



Touch to change band setting from the current state towards **Cool**

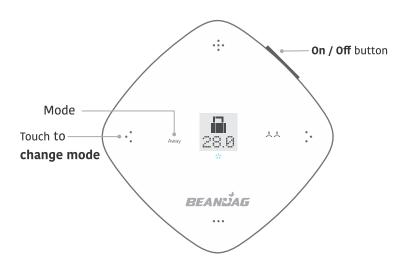
Display after commissioning: Mode 2 - Customise

Display and key functions

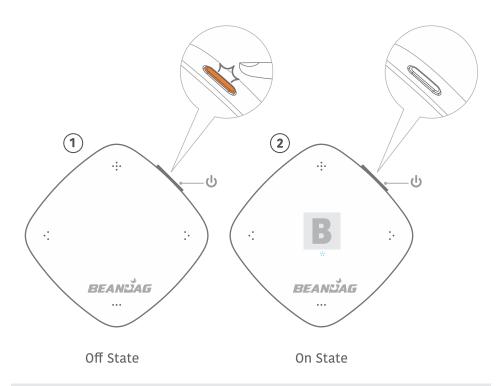


Display after commissioning: Mode 3 - Away

Display and key functions



Turn On/Off the FCU locally

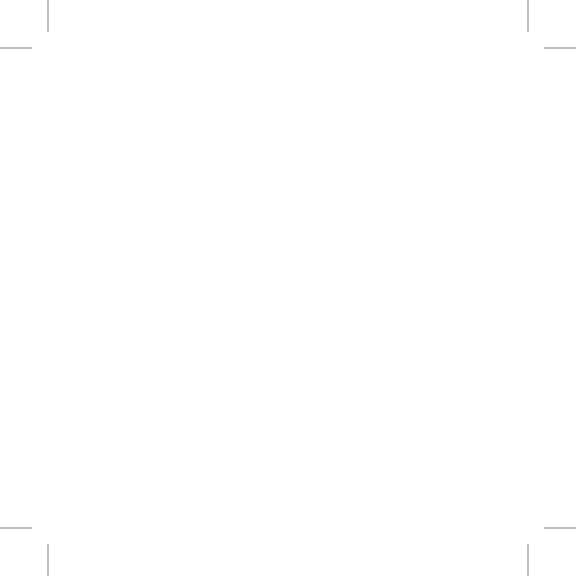


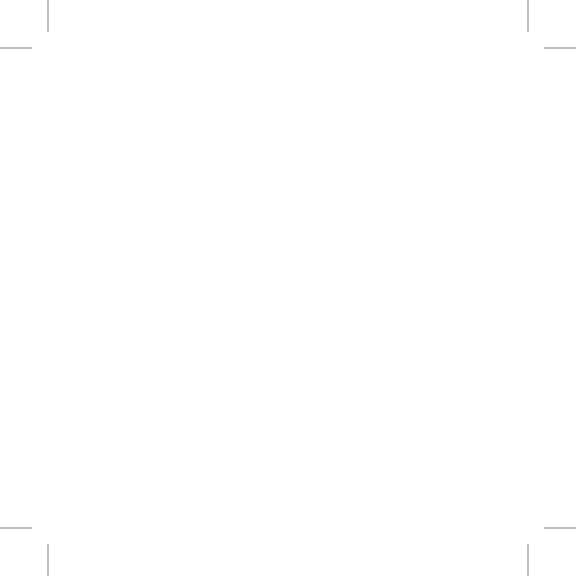
Note: In the uncommissioned state, if the device is suitably connected and powered ON, the Beanbag Cool logo will come on and the power LED will be turned OFF.

Beanbag product variants

Variants	Description
BT5000-000	Beanbag thermostat 500, split/window AC, 230V AC, Wi-Fi, BLE
BT5100-000	Beanbag thermostat 600, FCU, 230V AC, wall mount, Wi-Fi, BLE, On/Off valve, with external BLE sensor
BT5100-010	Beanbag thermostat 600, FCU, 230V AC, wall mount, Wi-Fi, BLE, On/Off valve, energy saver key tag input, with BLE external sensor
BT5100-100	Beanbag thermostat 630, FCU, 24V AC, wall mount, Wi-Fi, BLE, 0-10V modulating vale, with external BLE sensor
Additional	Description
BS1000-000	Beanbag External Temperature Sensor 110, AAA battery powered, BLE
BLLD40-177	Wall plate (optional)

Notes







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BGX701-175-R02