

Wireless Garbage Bin Sensor

(Family-IoT)

Product Description:

BC-100 is an intelligent product from Vighnaharta which perfectly suits the requirements of a smart city solid waste management. It is a garbage bin fill level sensor integrated with GSM and GPS connectivity with a host of other useful features. It consists of single sensors that can be used to determine the fill levels of a garbage bin. It is configurable to use with single or dual bins as per user requirement.

Another unique feature of Bin-Connect is that it connects to the cloud-based application over GPRS connectivity. The Bin-Connect has an inbuilt GPS module that can be used to track the position of mobile bins. Additionally, it has an in-built temperature sensor. All these parameters are made available on the cloud.

Bin-Connect is a battery-operated device. Frequency of data transmission to cloud is user configurable. Whenever the bin is full or empty, data is transmitted immediately. BC-100 comes with IP65 grade enclosure making its operation waterproof.



Application:

- Smart City
- Commercial property
- Factory
- Smart Washroom

USPs:

- Accurate sensing
- App notification
- Tamper indication
- Easy installation on any kind of Bin

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Technical Specifications:

Level sensor	<ul style="list-style-type: none">• Ultrasonic technology with 1cm resolution• Range: 30 cm – 400 cm• Two levels of fill percentage reporting (20 % & 80 %)
Temperature sensor	<ul style="list-style-type: none">• Range: -10° C to +70° C• Accuracy: ± 1° C
Communication	<ul style="list-style-type: none">• GPRS over GSM: 850/900/1800/1990 MHz• Network: Internal SIM card• Built-in GPS• Compatible to NB-IoT & LoRa• LoRaWAN™ class a protocol for LoRa connectivity
Interface	<ul style="list-style-type: none">• Optional RS-485 interface (for integration with weighing scale output)
Data management	<ul style="list-style-type: none">• Accessibility: 24 x 7 access through Bin-Connect web portal• Data type: container fill level, GPS coordinates, temperature & weight (optional)
Power	<ul style="list-style-type: none">• Battery: 3.6V high performance primary Lithium battery• Battery Life:<ul style="list-style-type: none">○ 5 years with 1 transmission per day○ 2 years with 4 transmissions per day○ Rechargeable battery (optional)○ Solar charger interface for rechargeable battery (optional)
Environmental specifications	<ul style="list-style-type: none">• Enclosure rating: IP65• Operating temperature: -10° C to + 70° C• Storage temperature: -20° C to + 80° C

Datasheet version with date (V.2 Oct.2020)

