Smartbin Sensors

Reduce waste collection costs with our smart waste bin sensor and IoT-based monitoring solution.

BioEnable smart waste bin sensor is compatible with any type of container installation to monitor any type of substance or waste in real-time. Smart Waste bin sensor can be attached to any type of container to monitor the fill-level. Its ultrasonic fill-level sensor enables it to detect any type of waste.

Smart Bins Concept

Smart waste bin sensor transmits data it collects in real-time through wireless networks to BioEnable smart waste management platform, 2G and 3G telecommunication modules are available through WCDMA and GSM networks.

Sensor Based Waste Collection Bins is used to identify status of waste bins if it is empty or filled so as to customize the waste collection schedule accordingly and also save the cost.

Real time waste management system by using smart dustbins to check the fill level of dustbins whether the dustbins are full or not, through this system the information of all smart dustbins can be accessed from anywhere and anytime by the concerned person. It will inform the status of each and every dustbin in real time so that concerned authority can send the garbage collection vehicle only when the dustbin is full.
Route optimization and predictive analytics provide insightful historical data to generate the best routes and estimate the time of containers becoming full. BioEnable provides complete solution with manpower that makes waste collection and dispatch operations both efficient and cost-effective. These tools eliminate hours spent on manual routing, maximize productivity, optimize equipment and staff allocations, and allow you to gain better control over your solid waste management operations.

**BENEFITS**

- Intelligent Monitoring
- IoT fill level Sensors
- Send optimized route directly to drivers
- Know the fill level garbage bins
- SmartBin Live Dashboard
- Collection operations become more efficient and Smarter
- It will stop overflowing of dustbins along roadsides and localities as smartbins are managed at real time.
- The filling and cleaning time of smart bin will also be reduced thus making empty and clean dustbins available to common people.

- It also aims at creating a clean as well as green environment.
- By using the route algorithm it will smartly find the shortest route thus it will reduce the number of vehicles used for garbage collection.
- Lightweight
- Easy to install to any type of containers
- Less amount of fuel consumed by vehicles thus can save a large amount of money as well.
Real-time data and analysis

The fill-level information sent to our smart waste collection optimization platform not only helps the operation managers to understand the location and times of waste collections, but also improves the way they collect the trash by recommending the optimal collection routes.

FEATURES

- Robust IP66 Weatherproof
- Operating Temperature: -20°c to +80°c
- Power Supply: High performance battery
- Software: Configuration and update to over the cloud
- Fireproof
- Measures all materials & liquids
- Easy to use, easy to install
- Real-time Signal Processing

- Tilt, temperature or location sensing & alerts
- Remote Diagnostics feature
- Platform architecture allows easy Spin-offs
- Know Fill Levels – before you go
- Greater traceability
- Lower carbon footprint
- Collections on time, every time
MODEL 1: COMPACT BLACK

- Compact water resistant
- Fire resistant design
- Under 450 gms
- 1.5 years battery life (addon)
- Replaceable battery
- Cost effective
- GSM/GPRS
- Support all GSM SIM cards
- IoT Module: FCC, CE & RoHs certified, production grade
- Designed & Assembled by BioEnable

MODEL 2: LONGER BATTERY LIFE

- Inbuilt temperature sensor
- Ultrasonic dual sensor
- Under 450 gms
- 3 years battery life (addon)
- GSM/GPRS inbuilt
- WiFi or Lora network optional
- Fire resistant and alert
- Support all GSM SIM cards
- IoT Module: FCC, CE & RoHs certified, production grade
- Designed & Assembled by BioEnable
Status in Web / Mobile

Details - Web / Mobile / Maps

Device Log
Supported Bins - Large

Supported Bins - Small

Contact Us

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