





SAUR EPARKIS PVT. LTD.

**EPARKIS SMART DUSTBIN** is a totally indigenous **MAKE IN INDIA** product from SAUR EPARKIS PVT. LTD., Ghaziabad.

**SAUR EPARKIS PVT. LTD.** (formerly “Synergic Systems”) established in 2007, is a company providing solution in vast spectrum from Electro-mechanical devices to industrial software. We are in the field of design and development activity related to industrial automation, innovative products and Smart City applications.

**EPARKIS SMART DUSTBIN** is the latest innovation from the Saur Eparkis stable that addresses the cleanliness and logistics concern of fast growing urban conglomerates, smaller towns and cities.

### **Features of the EPARKIS SMART DUSTBIN**

**Compactor Mechanism:** Generally, the waste dumped into the dustbin occupies more space than its actual volume and dustbins appear to be filled completely. Our smart level monitoring system continuously sense the level of the container and trigger compactor mechanism when necessary to reduce the space occupied by the waste by compressing it to produce more empty space.

When no further compaction is possible, the alert system gets activated.

**Collection Optimization:** The Intelligent Monitoring solution sends the location of the completely full bins which are ready for the waste collection, to the server. This system also helps to optimize their route for the collection operations and maximize the use of valuable resources.

**The Control System** collects the real-time data of the Container level from the sensors, & pushes it to the cloud. It can be configured to send the time-based data collection information & also alerts.

**Communication:** This system communicates with the server through the cloud, send and receive real-time information, and initiate following action.

- Force trigger of the compactor mechanism of the dustbin.
- Read Current status of the garbage level.
- Read Geographic location of the system.
- Send SMS Alert for the garbage collection.
- Reconfigure ON/OFF Times of Advertising backlighting.
- Read and record the Weight of garbage collected.

The **EPARKIS SMART DUSTBIN** is provided with Advertising Panels on all 4 sides of size 32 inches by 38 inches, which are backlit by LED lighting of 80 Watts. These lights are on automatic self- timer mechanism and turn on and turn off at dusk and dawn.

The **EPARKIS SMART DUSTBIN** can also reduce overcharging by contractors entrusted with collection of garbage, since weight of garbage collected is stored in the server and can be consolidated at the time of payment.

Hence, it can be easily seen how the **EPARKIS SMART DUSTBIN** can add glitz and smartness to your city as well as go a long way in keeping it clean, reducing costs, and earning advertising revenue.



## Technical Specifications of Smart Dustbin

S.No.	Parameter	Values
<b>Introduction:</b>		
<p>The smart dustbin has built-in waste compactor mechanism which reduces the occupied volume of the garbage to make extra room for adding more as well as curb nuisance such as rodents and smell. This mechanism helps to increase its use to 8 times from its normal usage. On getting filled, it sends an alert to a central server and/or SMS to concerned person for clearing the garbage. It maintains a log of date/time of fill-up and clearing of garbage along with weight of garbage collected. Real-time status can also be viewed on the server. Glow Signboards on 4 sides are provided (with Astronomical Backlight Timer) to enable revenue generation.</p>		
1	Capacity	100Ltrs.
2	Material (Structure)	Mild Steel
3	Input Power	1Ø/220V/ 50Hz
4	Garbage Compactor Assembly (Hydraulic)	Yes
5	Four-Side Access for Bin Usage	Yes
6	Closable Flaps During Compression Operation	Yes
7	Garbage Level Sensor	Yes
8	Auto-Calibrating Weighing Sensor	Yes
9	Garbage Weighing Scale	Yes
10	Mobile Communication	Yes
11	Real Time Monitoring	Yes
12	Intelligent Software For Centralised Control	Yes
13	Pilfer Proof, Vandal Proof And Weather Proof Construction	Yes
14	Glow Signboard Specifications	Yes
a	Backlit Panel Area (Minimum)	800 X 450
b	Astronomical Timer	Yes
c	Manually Settable Timer	Yes
d	Manual On / OFF	Yes
e	Intermediate ON-OFF	Yes
f	GPRS Communication	Yes
g	RF Networking	Yes
h	Centralised Control	Yes
i	ON / OFF Timing Accuracy.	60 Sec
15	Over Voltage Protection	260±5V
16	Under Voltage Protection	160±5V
17	Over Load Protection	Yes
18	Short Circuit Protection	Yes
19	System Failure Alerts	Yes
20	Data Analysis & Report Generation	Yes
21	Guarantee 2 Years + AMC 3 Years	5 Yr.