

## G2 Fill Level Sensor for Smart Waste Management



### Technical specifications

Distance measurement	Optical / Ultrasonic (Optional)
Minimum distance	1 cm
Maximum distance	240 cm/ultrasonic 400cm/optical
Measurement calculation	Multi measurement with weight approximation
Temperature measurement	Yes
Weight (batteries included)	358 g
Weight (battery excluded)	165 g
Size (h/w/d)	50 x 120 x 54 mm
Power supply	Up to 5 years (battery duration depends on local temperature, type and position of the bin, and frequency of measurement)
Batteries voltage and capacity	3.6V, 2600 mAh
Batteries type	Lithium-thionyl chloride (Li-SOCL2)
Battery replaceable	Yes, 2 batteries type LS14500 (2 x 54 grams)
Temperature range	-40°C to + 65°C
Device class	Class A
Adaptive Data Rate	Yes
Downlink configuration	Yes
Measurement times	Up to 48 readings per day
Turn on mechanism	Magnetic
Cover	Recyclable, polyamide with optical fibers
Device type	Sensor Plug'n'Play
Connectivity	LTE CATNB1, CAT-M1, LoRaWAN
Usage	Indoor, load carriers and containers, outdoor
Application	Distance measurement, filling level measurement
Sensors	Distance, temperature
Enclosure rating	IP67
Certifications	CE, FCC, RCM, PTCRB, UKCA

### Product Features

- Multi-technology sensing (Ultrasonic & Optical)
- Up to 4m sensing
- Monitors solid or liquid waste
- Emergency Alerting System (fire/tipping)
- Real-time sensing of fullness
- LTE CAT-NB1, CAT-M1 or LoRaWAN
- IP67 rated for harsh waste environments
- Built-in user replaceable dual Lithium-thionyl chloride (Li-SOCL2) batteries

Smartphone application for easy use



#### Ultrasonic Sensor

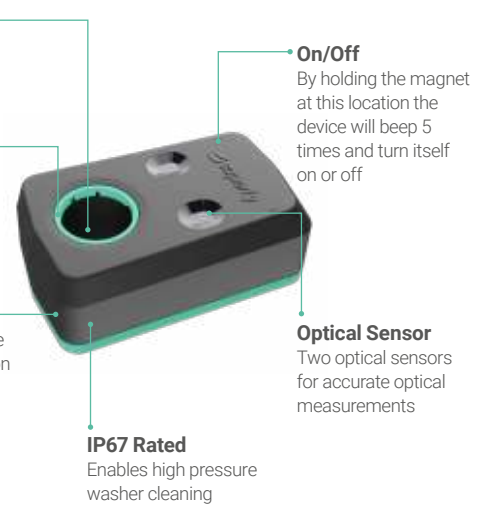
1 inch ultrasonic sensor reads the topology of the waste in the bin

#### Cone Seal

The cone seal provides an option for a cone to be retrofitted for larger bin vessels

#### Hardened Plastic Enclosure

Hardened plastic enclosure allows for robust installation in harsh environments including sea salt spray locations, duty and dirty locations and all weather locations



#### On/Off

By holding the magnet at this location the device will beep 5 times and turn itself on or off

#### Optical Sensor

Two optical sensors for accurate optical measurements

#### IP67 Rated

Enables high pressure washer cleaning

### Typical Applications

