

IoT Sensor

Level Meter

The **Level Meter IoT** waste monitoring is a smart, all-in-one system for precise bin and container management.

By monitoring fill levels, detecting motion or impacts, and transmitting data to the **GloT Cloud Platform**, it turns traditional waste collection into a real-time, data-driven process.

Designed for fast installation and minimal maintenance, the Level Meter provides full fleet visibility, helping operators reduce waste, optimize routes, and manage assets efficiently.

Screw mounting (M5 screw).



KEY FEATURES

Plug&Play deployment

Easy to install

Universal Usage; even in the deepest basement, thanks to NB-LoT module

Fully **FOTA**

APPLICATIONS

Public Bin Management: Monitor bin fill levels in real time to optimize collection routes and reduce operational costs.

Construction Sites: Track container fill levels and movements to improve material logistics and site efficiency.

Private Documents Management: Securely monitor confidential document containers to ensure timely collection and controlled handling.

Hazardous Materials collection: Monitor hazardous waste containers to support safe collection schedules and regulatory compliance.

TECHNICAL SPECIFICATIONS

Enclosure

Weight	115 g
Dimensions	43.48 × 85.89 × 68.00 mm
Display Type	1.28" 128x128
IP Rating	IP65

Operating condition

Temperature	-20 °C to +60 °C (with chip SIM)
Storage Temperature	+20 °C to +30 °C (with chip SIM)
Operating Voltage	2.5–3.0 V DC
Operating Humidity	5% to 95% RH, non-condensing
Storage Humidity	5% to 70% RH, non-condensing

Power Supply

Battery Type	4,800 mAh / 3 V (Li-MnO ₂), 1.6 g lithium
Operational Voltage	2.5-3.0 Volt
Typical Battery Life	>5 years with 1.5 transmissions per day and 2 FOTA updates
Power Consumption	Quiescent current < 15uA NB-IOT Transmission < 400mA NB-IOT Receiving current < 100mA Data acquisition current < 600mA Average power consumption 0.65mAh/day Typical battery lifetime > 5 years x 1.5 transmissions/day and 2 FOTA updates

Connectivity

Cellular Interface

Deutsche Telekom NarrowBand IoT (LTE NB-IoT)

Communication Interface

REST, MQTT-SN

Antenna

B8 (900 MHz) and B20 (800 MHz). Additional frequency bands available upon request.

SIM Slot

1 × embedded Chip SIM

Sensors

Accelerometer 3-Axis

Distance Sensor

A Version: ToF 5cm-160cm
B Version: ToF 5cm-400cm

Temperature Sensor

