

AMEZEUS

CATALOGUE PRODUITS

CAPTEURS DE REMPLISSAGE

Capteurs connectés pour conteneurs à déchets.

Détection et suivi du niveau de remplissage.

Route de Taillepied 44

1095 Lutry, Suisse

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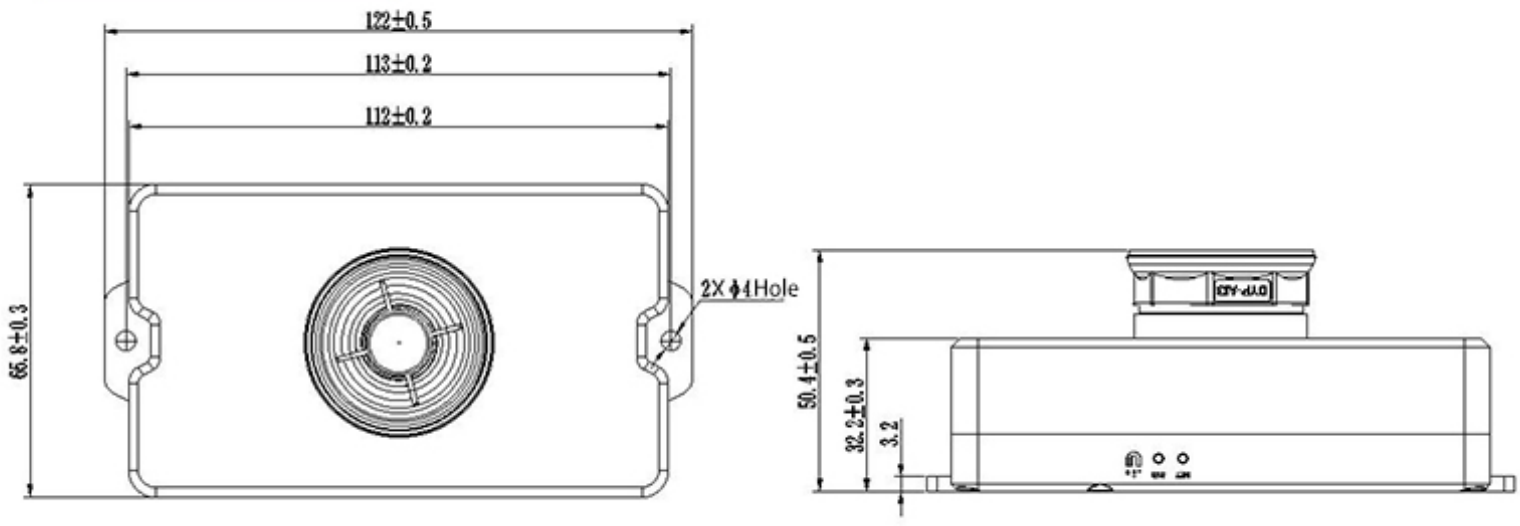
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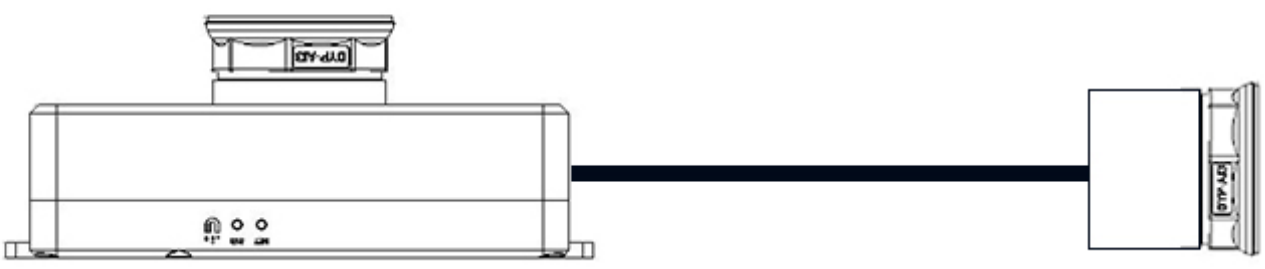
PRODUCT TECHNICAL PARAMETERS

Note: The Company reserves the right to update product features without prior notice. Please contact Customer Service for the latest specifications.

Regular Model.



Supports Adding Additional Sensors.



Parameter Item	PLH-SG01
Module application functions	Scenarios such as overflowing waste bins and liquid level detection; furthermore, it automatically connects to the network to report data.
Power Supply Method	Two ER26500 Li/$SOCl_2$batteries connected in parallel (9000 mAh each)
Operating Voltage	2.8~3.8 V
Standby Current	⩽10 uA
Average Operating Current	⩽650 uA
Battery Life	⩾3 years
Blind Zone	⩽25 cm
Measurement Range	25-200cm (Customization is supported)
Ranging Accuracy	±(1+S*0.5%) cm "S" represents the measurement distance
Beam Angle	≈20°
Tilt detection range	0~180 °
Work Cycle	Data Collection: Configurable (Default Interval: 1 hour) Data Upload: Configurable (Default Interval: 6 hours)
Configuration Method	Bluetooth LE 5.0
Wireless Network Standards	4G CAT-1(bis)
Wireless Band	LTE-FD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71#LTE-TDD:B34/B38/B39/B40/B41
Network Protocols	MQTT
Positioning Satellite	GPS/GLONASS/Galileo/BD
Positioning Accuracy	⩽5 m
Base Station Positioning	⩽550 m (Automatically activates this positioning function when GNSS positioning fails)
Waterproof Rating	IP67
Operating Temperature	-20~60 ℃
Housing Material and Color	ABS+PC (flame-retardant material) & black
Installation Method	Install it from above the waste bins facing down

EQUIPMENT WORKFLOW

Easy to install and commission; features 4G wireless communication and supports remote monitoring via PC.



MULTI-SCENARIO APPLICATIONS

Various types of waste bins and transfer stations (overflow monitoring), wireless liquid-level detection, smart city applications, scenic area sanitation, etc.


Garbage Bin Overflow Detection


Trash Can Overflow Detection


Wireless Liquid-level Detection



Transfer Stations (overflow monitoring)


Smart City Applications


Wireless Position Of Object Monitoring


Scenic Area Sanitation


Smart Industrial Park Applications


Municipal Engineering Applications

MULTI-FUNCTION INTEGRATION



- Wireless Communication Function
- Heartbeat & Event Triggers
- Positioning Function
- OTA Remote Upgrade Function

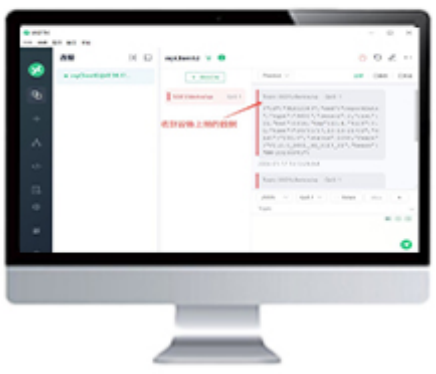
01. Wireless Communication Function

Real-time data reporting, real-time remote monitoring on the computer side.
Supports 4G wireless communication, and is compatible with the networks of major operators in Europe and North America.



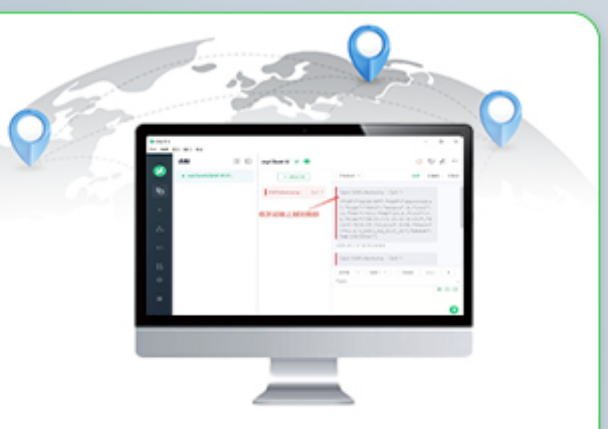
02. Heartbeat & Event Triggers

The warning thresholds can be customized.
① Fire alarm warning
② Garbage overflow warning
③ Garbage emptying warning
④ Low battery warning
⑤ Product posture tilt warning
⑥ Probe abnormality warning
⑦ RSSI warning
⑧ GNSS satellite number warning



03. Positioning Function

Supports GPS/GLONASS/Galileo/BD, with a positioning accuracy of <5 meters. It can effectively prevent loss, facilitate searching and management, making usage more worry - free and management more efficient.



04. OTA Remote Upgrade Function

After use, the performance can be remotely upgraded and optimized, which can significantly reduce on-site maintenance costs, ensure the long-term stable operation of the equipment and the continuous iteration of functions.



STRONG ENVIRONMENTAL ADAPTABILITY, DURABLE AND MORE HASSLE-FREE

High temperature resistance, moisture resistance, IP67 water-proof, free from interference of mosquitoes, dust, wind and rain.

IP67 Waterproof Rating, Strong Anti-interference Performance

IP67 dust and water resistance, free from the interference of mosquitoes, dust, wind and rain.

Suitable for Most Environmental Temperatures

With an operating temperature range of -20℃ to +60℃, heat and moisture resistant.

Low power consumption and long battery life, reducing maintenance costs.

Powered by battery, with a service life of over 3 years and standby current ⩽10 uA.



SIMPLE INSTALLATION & DEBUGGING.

Magnet trigger for on/off, supports two connection configuration modes: APP and PC terminal. Fixed installation via adhesive or drilling, ready to use right after installation.



1.The on/off function is triggered by a magnet, offering better waterproof protection

The device turns on when triggered by a magnet, and its operating status is visible. is It equipped with a dual-LED indicator to show the system operation and network status.



2.Set up via the APP and PC.

Method 1: Bluetooth connection.

The APP can obtain and set up information such as the device ID, server IP and port, and early warning threshold.



Method 2: Connect via the computer (4G connection)

to obtain data reports, and access and set information such as device ID, server IP and port, and early warning thresholds.

