

Manhole NBIoT Sensor for Manhole Security and Water Level Detection

## MS102-MHWL-NB-BT8

The MS102-MHWL-NB-BT8 NBIoT manhole detection sensor boasts a high protection IP68 enclosure, making it suitable for installation at the bottom of various manholes. Equipped with a low power ARM32 bit CPU, it can detect manhole position and the water level under up to 4 meters. It is powered by an 8500mAh Lithium battery that can last for up to 8 years with 4 daily uplinks to cloud servers like ThingsMaster OTA through NBIoT B1/3/5/8/20/28 bands. Due to its adaptability, the manhole sensor is an ideal solution for a wide range of smart city projects designed to improve public safety.





## Things Master OTA (MQTT





## **Features & Benefits**

Detection Technology	Leveling Detection and Ultrasonic Detection
Water Level Detection Range	4 Meters Vertical
Detection Object	Manhole
Enclosure	IP68
Installation	Bottom side of Manhole Cover
Dimension	Ф115mm Round, 40mm depth
Wireless	NBIoT (B1/3/5/8/20/28), 1 Micro SIM
Weight	150g
Cloud Protocol	TCP, MQTT
Application Platform	ThingsMaster OTA
Operating Temperature	-20 to 70°C
Power Supply	Non-Chargeable Lithium battery 8500mAh 3.6v
Battery Life	Up to 8 years (4 transactions per day)



## √ Real Time OTA Management

- Integrated OTA platform on public Cloud
- Real-time status of manhole
- Auto-assign group IP





Model	Description
MS102-MHWL-NB-BT8	Manhole Tilt Water Level Sensor NBIoT IP68, 8500mAh Battery
ThingsMaster OTA FL-100	Annual Fee- ThingsMaster OTA 100 Nodes on public server
	Package List
	Product Unit x 1 (SIM Card not included)
	QIG