



AVCOMM®

# AVC-MCS102 Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



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## Manhole NBloT Sensor for Manhole Security and Water Level Detection

### AVC-MCS102

The NBloT manhole detection sensor can be installed on the bottom of different manholes with high protection IP67 enclosure. It is designed with ARM32 bit low power CPU with position detection and ultrasonic liquid sensor. It is powered by 8000mAh Lithium battery which can last for 3 years under 4 times uplink per day. The Manhole sensor can send real time status of the manhole such as manhole angle and water level to cloud server like ATMS OTA through NBloT B1/3/5/8/20/28 band. The manhole sensor can be applied for many smart city projects to enhance public safety.



#### Product Features

<b>Detection Technology</b>	Leveling Detection and Ultrasonic Detection
<b>Water Level Detection Range</b>	8 Meters Vertical
<b>Detection Object</b>	Manhole
<b>Enclosure</b>	IP67
<b>Installation</b>	Bottom side of Manhole
<b>Dimension</b>	Φ115mm Round, 80mm depth
<b>Wireless</b>	NBloT (B1/3/5/8/20/28), 1 SIM
<b>Weight</b>	150g
<b>Cloud Protocol</b>	TCP
<b>Application Platform</b>	ATMS OTA
<b>Operating Temperature</b>	-40 to 75°C
<b>Power Supply</b>	Industrial battery 8000 mAh@3.6V
<b>Battery Life</b>	3 years

## Ordering Information

Model Name	Description
AVC-MCS102	Manhole Tilt Water Level Sensor NBloT IP67, 8000mAh Battery

## Features

### ✓ Real Time OTA Management

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

Device management > Device list > Device report history

Time	Height	Longitude and latitude	Temperature	Status	Tilt angle	Overflow	Fire	Tilt	Battery	Signal strength	Battery voltage	RSRP	SNR	Frame counter
2019-12-26 15:11:11	291		21	0	3	0	0	0	0	1	3.63	-828	-8	14
2019-12-26 15:04:43	241		21	0	22	1	0	0	0	2	3.63	-864	-91	13
2019-12-26 13:07:52	297		21	0	3	0	0	0	0	1	3.63	-695	47	12
2019-12-26 12:21:23	186		21	0	6	1	0	0	0	2	3.63	-795	-32	11
2019-12-26 12:17:42	306		21	0	61	0	0	1	0	1	3.63	-898	48	10

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