One-stop manhole cover safety monitoring terminal procurement

Integrity management,working with us,your funds and business are absolutely safe



Product Selection Table

Please consult customer service for custom orders tailored to your specific needs

	FST100-2020	FST100-2020A	FST100-2020C	FST100-2020CA
				
	Anomaly Monitoring	**Anomaly + Overflow Monitoring**	**Anomaly + Water Immersion Monitoring**	**Anomaly Detection + Water Immersion Detection**
Communication Method	NB-IoT/4G-CAT1	NB-IoT/4G-CAT1	NB-IoT/4G-CAT1	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom	China Telecom/China Mobile/ China Unicom	China Telecom/China Mobile/ China Unicom	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery	Lithium battery	Lithium battery	Lithium battery
Battery Voltage	NB-IoT: 3.0~3.6V 4G-CAT1: 3.6V	NB-IoT: 3.0~3.6V 4G-CAT1: 3.6V	3.6V	3.6V
Battery Capacity	NB-IoT:4000mAh 4G-CAT1:8100mAh	NB-IoT:4000mAh 4G-CAT1:8100mAh	8500mAh	8500mAh
Operating Temperature	-20 ~ 80°C	-20 ~ 80°C	-20 ~ 80°C	-20 ~ 80°C
Ingress Protection Rating	IP68	IP68	IP68	IP68



FST100-2020D

Anomaly Monitoring + Ultrasonic Water Level Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	8500mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020DA

Anomaly Monitoring + Ultrasonic Water Level Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	8500mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020E

Anomaly Monitoring + Overflow Monitoring + Methane Gas Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.0V-3.6V
Battery Capacity	19000mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020EA

Anomaly Monitoring + Overflow Monitoring + Methane Gas Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.0V-3.6V
Battery Capacity	19000mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020F

Long Battery Life, Multi-Functional Positioning Model

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	19000mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020H
FST100-2020J

Anomaly Monitoring + Float Water Level Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	8500mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020HA

Anomaly Monitoring + Float Water Level Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	8500mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68



FST100-2020JA

Anomaly Monitoring + Float Water Level Monitoring

Communication Method	NB-IoT/4G-CAT1
Supported Carriers	China Telecom/China Mobile/ China Unicom
Battery Type	Lithium battery
Battery Voltage	3.6V
Battery Capacity	8500mAh
Operating Temperature	-20 ~ 80°C
Ingress Protection Rating	IP68

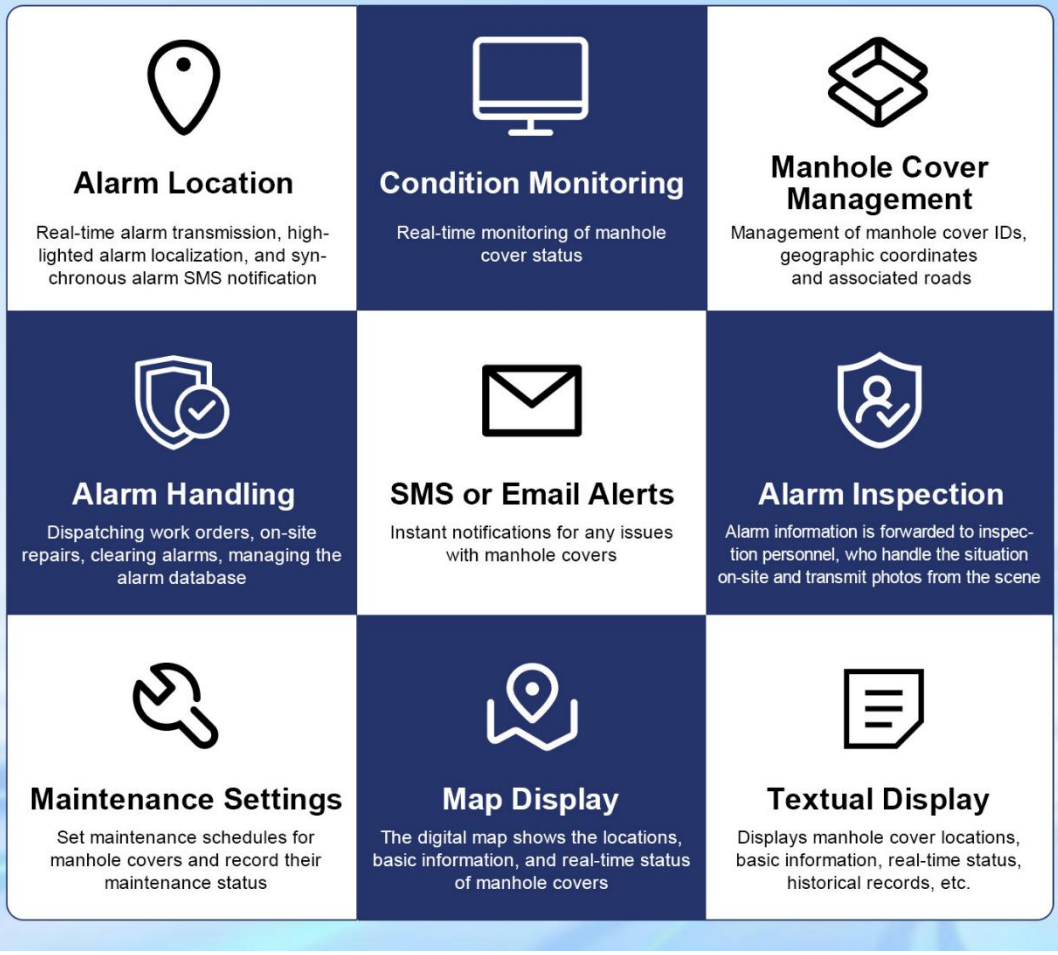
Be aware of safety hazards posed by manhole covers

When a manhole cover is opened, tilted, damaged, or goes missing, the intelligent manhole cover safety monitoring terminal issues an immediate alarm, effectively eliminating safety hazards associated with manhole covers.

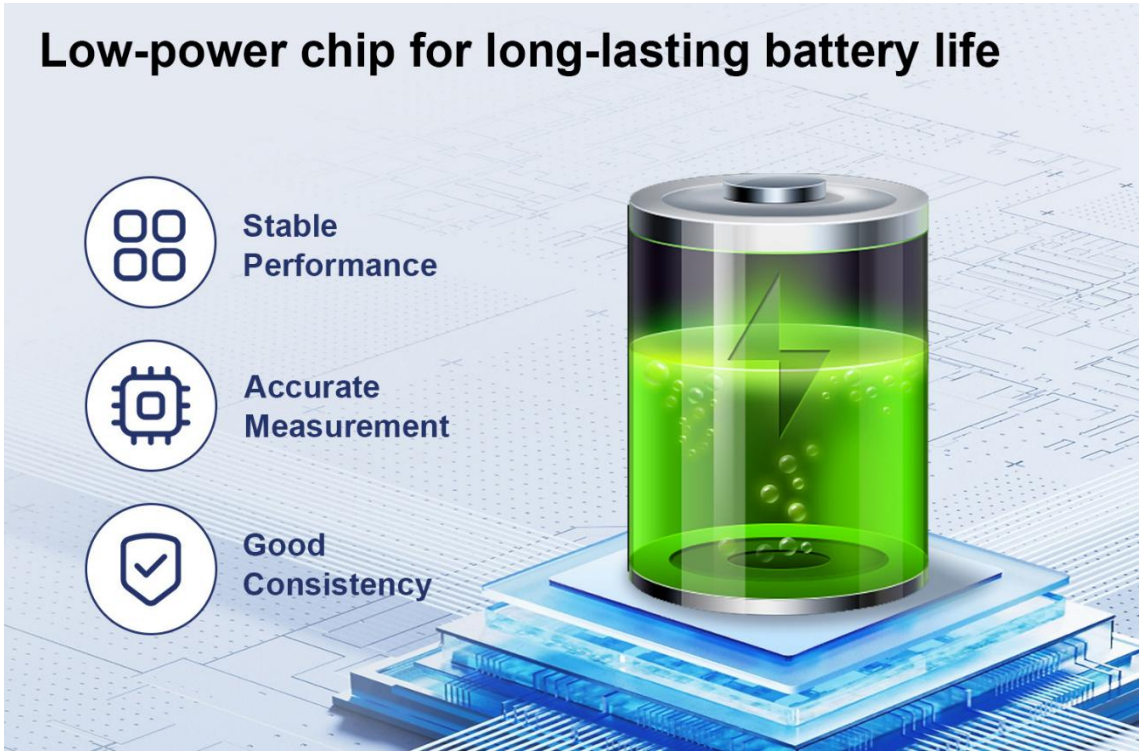


Highlights & Performance

Eliminating safety hazards posed by manhole covers



Low-power chip for long-lasting battery life



Real-time water overflow monitoring

Equipped with a highly sensitive overflow detection probe, the system triggers an alarm the moment groundwater in the pit makes contact with the probe—enabling proactive measures to be taken and preventing accidents caused by overflow



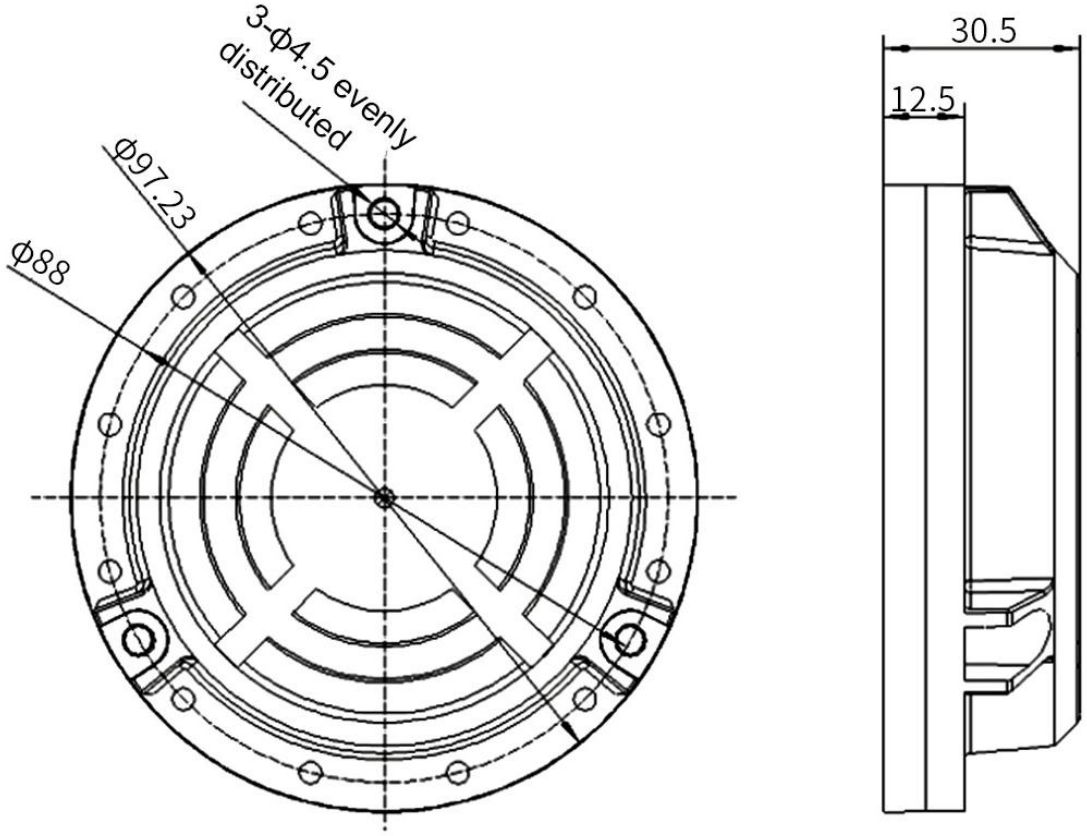
Architecture of the smart manhole cover monitoring system



Smart manhole covermonitoring cloud platform

The smart manhole cover monitoring cloud platform features GIS maps, real-time data, regional/department/device management, and alarm notifications. It enables terminal configuration and control, plus data collection, computation, and analysis, with distributed computing for processing massive data volumes.










Intelligent Manhole Cover Safety Monitoring Terminal
Model:
FST100-2020
IMEI:861428042049236