

ALM Series Alarm Module

MP3 Voice Alarm Module



Supports multilingual voice alarms
Stores up to 60/64 MP3 audio files
8 alarm modes
Max. sound output : 99 dB @ 1 m

User-defined RGB ultrabright LED
Built-in web-based configuration interface
4 alarm modes
Max. sound output : 120/100 dB



Sound & Light Alarm Module

- ✓ Provides **RS-485, Ethernet, and Wi-Fi** communication interfaces
- ✓ Supports **Modbus RTU and Modbus TCP** protocols
- ✓ Integrates easily with **PLC, SCADA, HMI, and existing equipment**



Office
Building



Factory
Floor



Tourist
Attraction



Transport
Hub

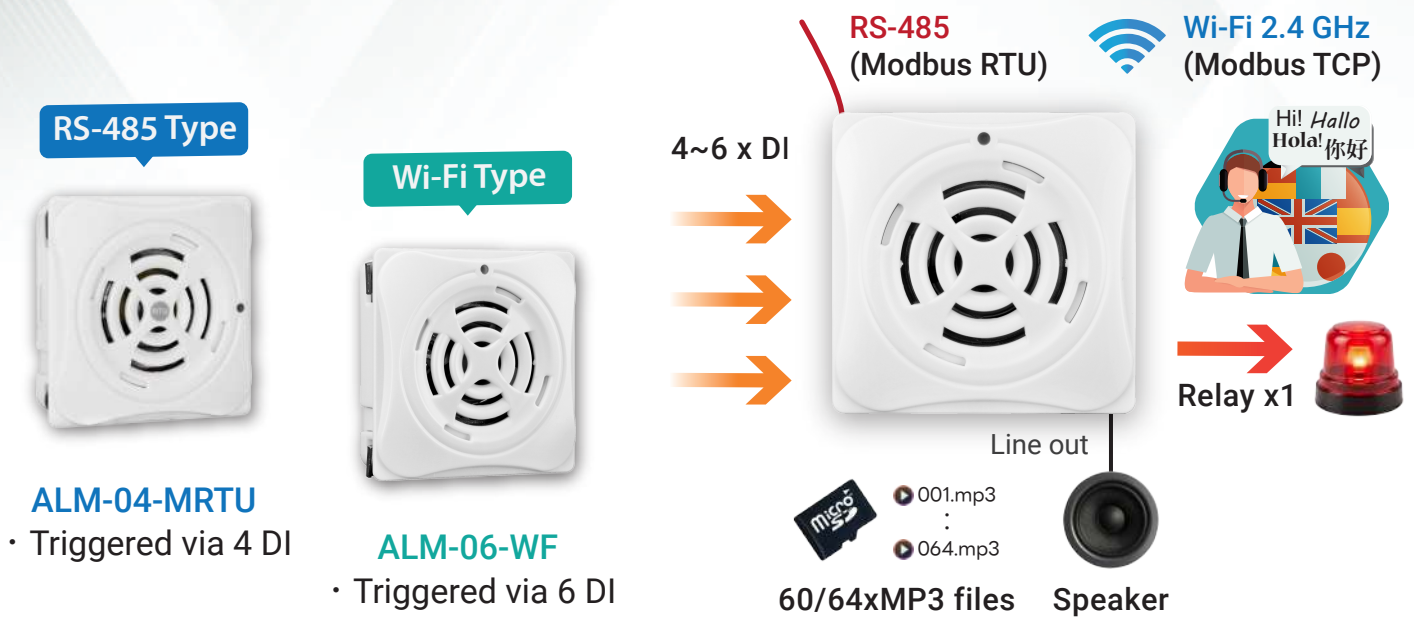


Manufacturing
Plant



Campus
Facilities

1 MP3 Voice Alarm Module



Product Features

- Equipped with a built-in microSD card, configurable via utility software to store up to 60/64 pre-recorded MP3 files, enabling customizable multilingual voice alarms.
- Supports wireless and wired communication, as well as DI-triggered alarms, with Modbus RTU and Modbus TCP protocols for easy system integration.
- Features adjustable volume control with a maximum sound level of up to 99 dB @ 1 m, and a line-out connection for external amplification to boost audio volume.

Alarm File Configuration

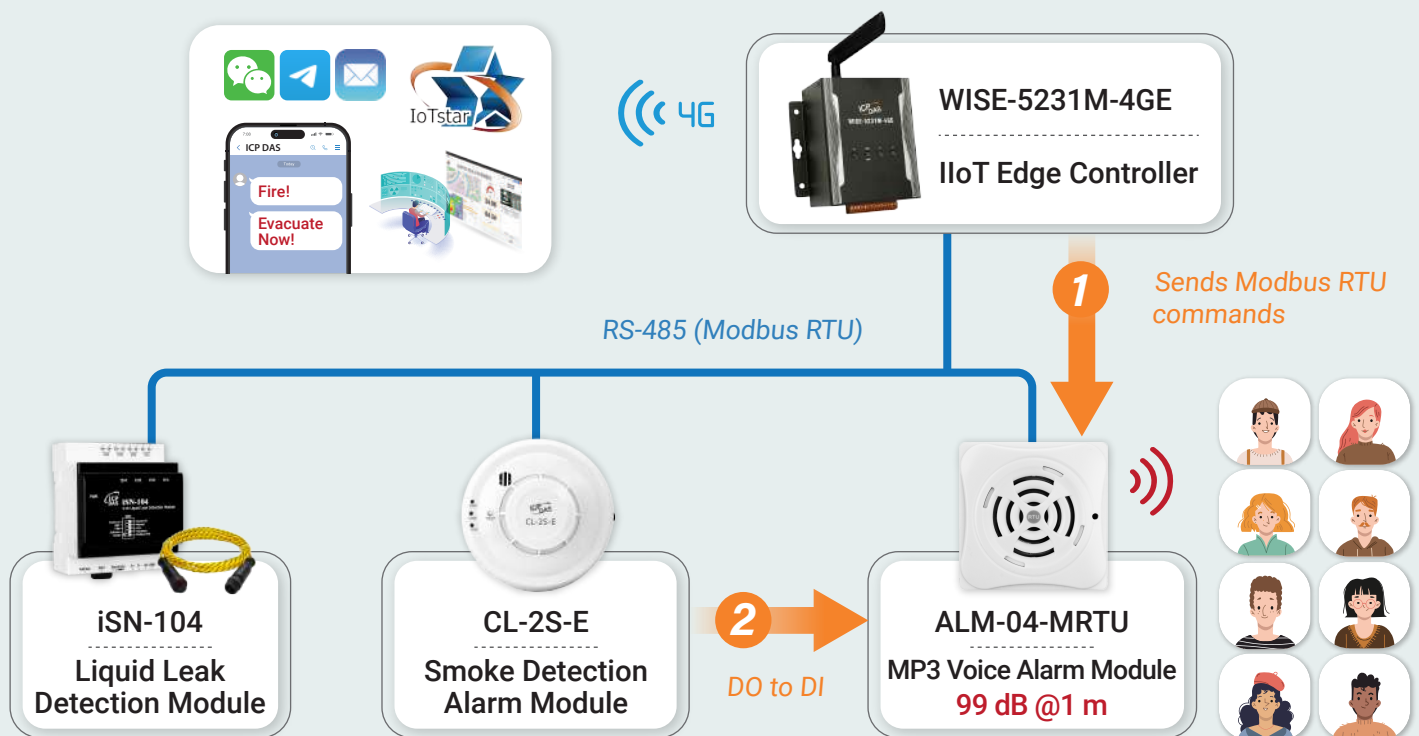
Module Model	ALM-04-MRTU	ALM-06-WF
No. of MP3 files supported	60 files	64 files
No. of files triggered by DI hardware (Mode 0~3)	4 groups	6 groups
No. of files triggered by DI hardware (Binary Mode 4~7)	15 groups	31 groups • DI1 – DI5 use binary combinations, totaling 30 groups. • DI6 is the highest-priority single group.
No. of files triggered by Modbus software (Binary Mode 4~7)	15 groups	30 groups

Note: Each alarm group supports up to 4 MP3 files, which are played sequentially.

Voice Alarm System

Multilingual MP3 Announcement Solution

Ideal for public spaces and crowded workplaces—factory floors, office buildings, transit stations, and event venues—where rapid evacuation is critical during emergencies. In multilingual environments, it helps visitors and employees of different nationalities receive clear evacuation instructions immediately, greatly enhancing emergency response.



IIoT Edge Controller

WISE-5231M-4GE

- ➔ The WISE-5231M-4GE collects smoke and leak detection module data and performs logic control. When an anomaly is detected, it immediately triggers the ALM-04-MRTU Voice Alarm Module via Modbus RTU commands.
- ➔ The WISE-5231M-4GE supports notification services via LINE, SMS, Email, WeChat, and Telegram, enabling administrators to stay informed of the latest status anytime and anywhere.

MP3 Voice Alarm Module

ALM-04-MRTU

- ➔ ALM-04-MRTU supports two trigger modes
 - Triggered via Modbus RTU commands
 - Triggered via DI signals
- ➔ When triggered, the ALM-04-MRTU instantly plays pre-recorded multilingual MP3 alarm messages, enabling faster on-site response and enhancing safety across various environments.

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Sound & Light Alarm Module



NEW !



Cybersecurity Type

ALMS-Horn-RGB

- ✓ Modbus TCP
- ✓ Modbus UDP
- ✓ HTTPS
- ✓ MQTT TLS
- ✓ Modbus TLS



PoE Type

ALM-Horn-RGB



RS-485 Type

ALM-Horn-MRTU-BR



Wi-Fi Type

ALM-Horn-WF-BR

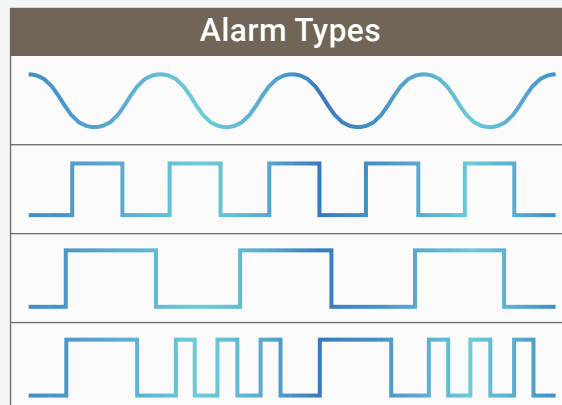


Non-Comm. Type

ALM-Horn-BR

Product Features

- ➔ 8 ultrabright LEDs: BR version (blue, red), RGB version (blue, red, green).
- ➔ 4 built-in alarm sounds with maximum sound output of 120 ± 5 dB @ 15 cm / 100 ± 5 dB @ 10 cm.
- ➔ Supports wireless and wired communication, as well as DI-triggered alarms, with Modbus RTU, Modbus TCP, and Modbus UDP protocols for easy system integration.



Category	BR Version	RGB Version															
LED Color	Blue and red dual-color LEDs	User-defined RGB LED															
Color Setting	Fixed blue or red	Built-in web interface with slider-based color and brightness adjustment <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Value</th> <th>Setup</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> <td>59990</td> </tr> <tr> <td>Red </td> <td></td> <td>0</td> </tr> <tr> <td>Green </td> <td></td> <td>0</td> </tr> <tr> <td>Blue </td> <td></td> <td>0</td> </tr> </tbody> </table>	Color	Value	Setup	0		59990	Red		0	Green		0	Blue		0
Color	Value	Setup															
0		59990															
Red		0															
Green		0															
Blue		0															
Flash Mode	Blue and red alternating flash	<ul style="list-style-type: none"> • Two-color alternating flash, single-color flash, fast and slow flash • Single-color steady on 															
Interface	Available in non-communication, RS-485, and Wi-Fi versions	Ethernet (PoE) version															

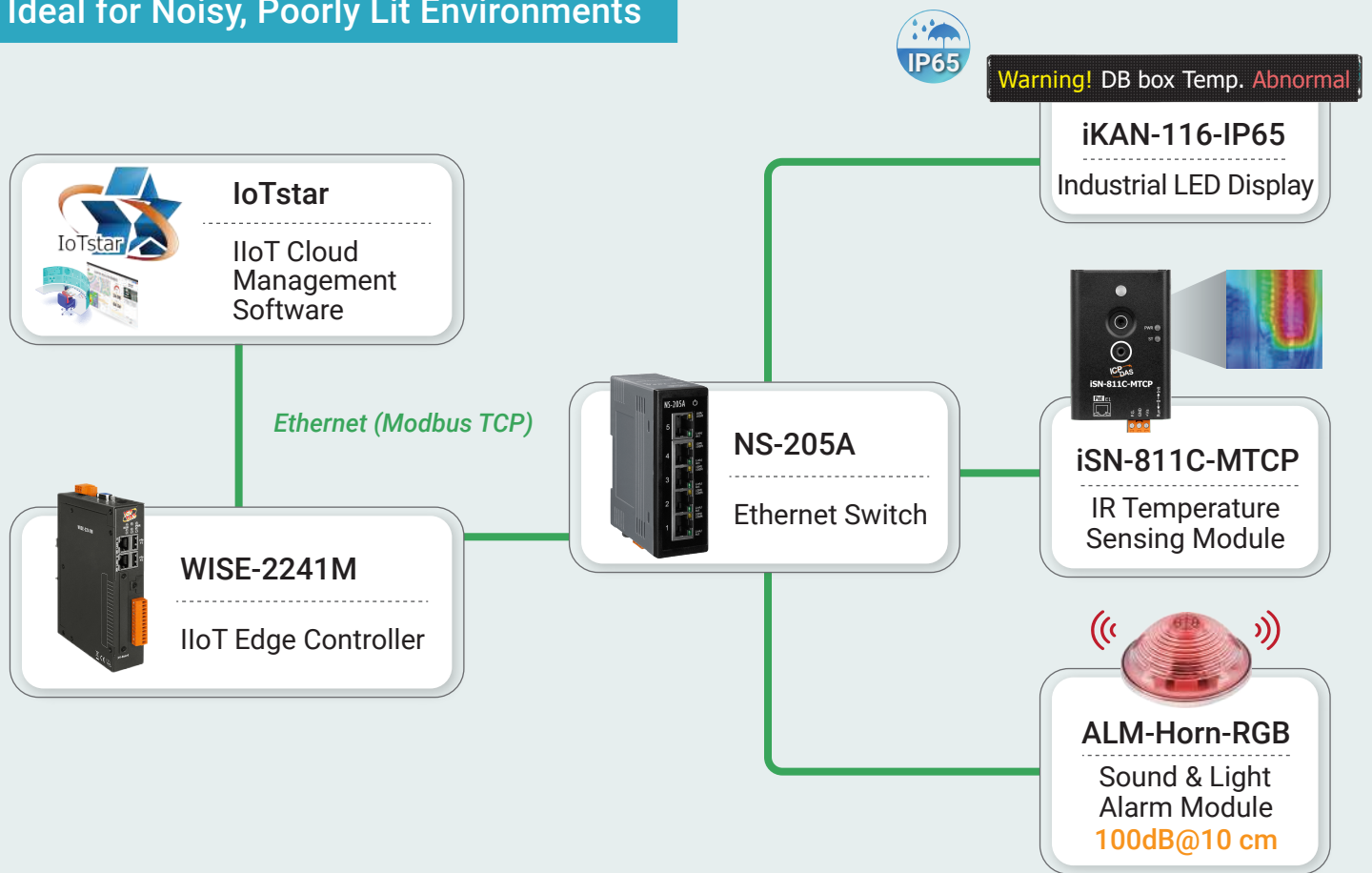
Sound & Light Alarm System

Comprehensive Audible and Visual Alert Solution

Suitable for noisy or poorly lit industrial environments, such as foundries, manufacturing plants, and mining sites. Real-time audible and visual alerts quickly notify personnel of equipment or environmental anomalies, helping them take immediate action and improving safety and efficiency.



Ideal for Noisy, Poorly Lit Environments



IR Temp. Sensing Module iSN-811C-MTCP

- The iSN-811C-MTCP monitors the distribution board temperature in real time, integrates thermal imaging with on-site video, and transmits data to the WISE-2241M Edge Controller.

Industrial LED Display iKAN-116-IP65

- Displays critical information in real time to accelerate troubleshooting ; supports up to 128 preset messages with configurable priority for emergency alerts.

Sound & Light Alarm Module ALM-Horn-RGB

- When the WISE-2241M Edge Controller detects that the distribution board temperature exceeds the preset threshold, it triggers the ALM-Horn-RGB via Modbus TCP commands.
- The ALM-Horn-RGB supports two trigger modes: Modbus TCP command triggering or DI signal triggering. Equipped with high-intensity LEDs and a loud alarm, it delivers instant audible and visual alerts.

3 iSOS Wireless Alarm Siren Module

The iSOS-ALM-Horn Wireless Alarm Siren Module features Sub-1 GHz wireless communication with a line-of-sight (LoS) range of up to 50 m. When paired with ICP DAS iSOS wireless emergency call buttons, it can be triggered wirelessly to activate audible and visual alarms, enhancing personal safety. Ideal for large-area environments such as industrial parks, public restrooms, campuses, communities, and parking lots.

 **4 Alarm Types**
Max. Sound Output: 120 dB



Wireless Alarm Activation



Red & Blue Alternating Flash
Ultrabright LEDs ● ●

433MHz
Wireless Radio Band



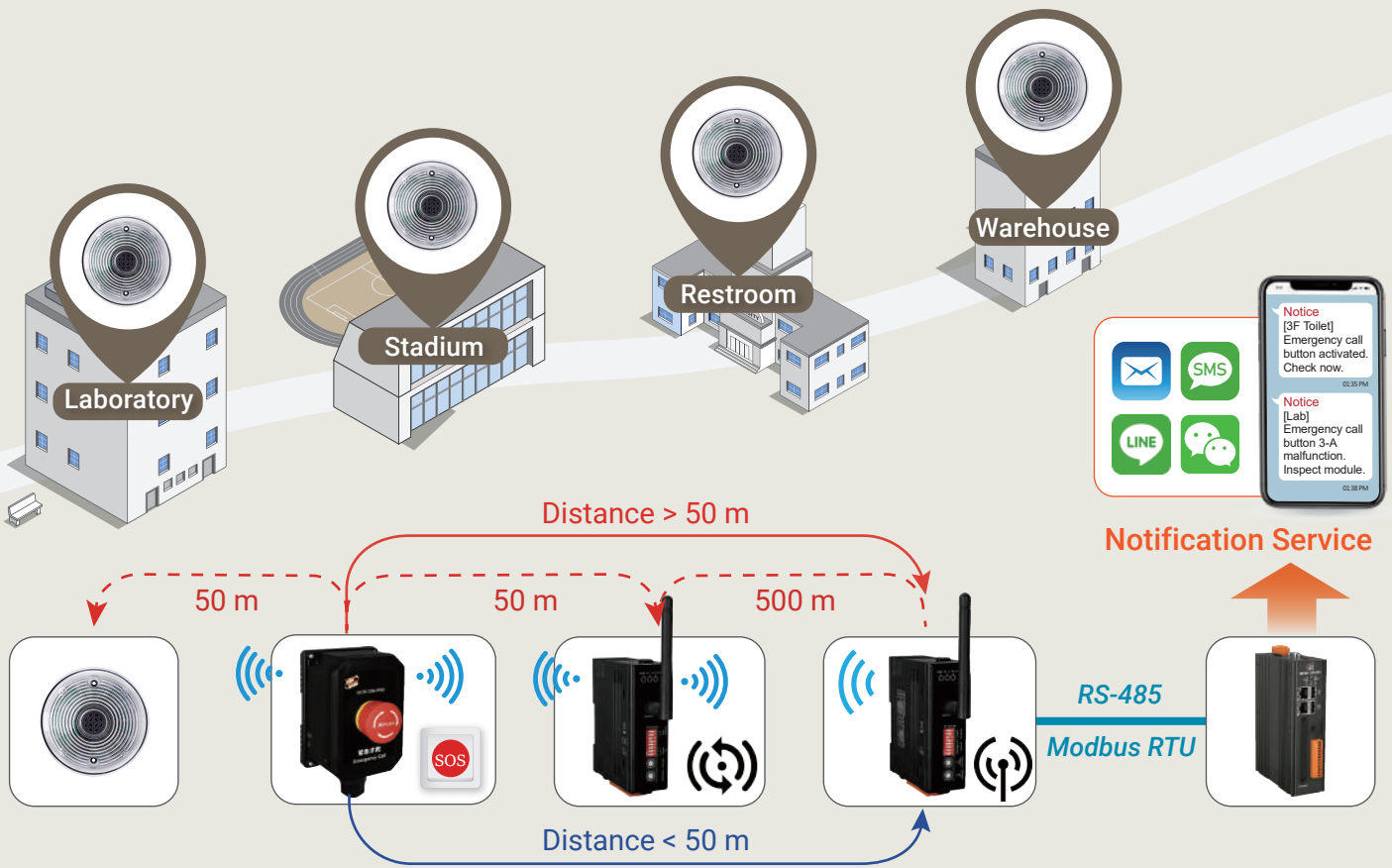
Wireless Sound & Light Alarm System

Comprehensive Safety Alarm Solution

Well-suited for large or high-risk areas such as hospitals, campuses, stadiums, warehouses, restrooms, and laboratories. The wireless alarm system allows rapid deployment, reduces cabling costs and installation complexity, and expands coverage. In emergencies, alarms can be triggered instantly on site, with notifications sent simultaneously to the guardhouse and mobile devices for faster response.



Widely Used In Campuses, Hospitals, Communities and Other Venues



Wireless Alarm Siren Module

iSOS-ALM-Horn

Wireless Emergency Call Button

iSOS-300-IP65

Repeater

RFU-433

Wireless Data Concentrator

iWSN-200R

IIoT Edge Controller

WISE-2841M

Waterproof Emergency Call Button iSOS-300-IP65



- ➔ When activated, the iSOS-300-IP65 wirelessly triggers the iSOS-ALM-Horn to issue an audible and visual alarm.
- ➔ The iSOS-300-IP65 also reports its online status and emergency call data to the iWSN-200R data concentrator.

Advanced Edge Controller WISE-2841M

- ➔ The WISE-2841M communicates with the iWSN-200R via RS-485, collecting data and performing logic processing and control.
- ➔ The WISE-2841M displays critical information at the control center and pushes notifications to security personnel's mobile devices.



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MP3 Voice Alarm Module

	Model	RS-485 Modbus RTU	Wi-Fi (2.4 GHz) Modbus TCP	PoE Ethernet Modbus TCP	DI (Dry)	DO	Audio Playback	Sound Pressure Level / Output
	ALM-06-WF	-	✓	-	6	Relay DC 50V / 100mA x1	MP3 64 Files(Max.)	99 dB @ 1KHz / 1meter / 3W
	ALM-04-MRTU	✓	-	-	4			







2

Sound & Light Alarm Module

	Model	RS-485 Modbus RTU	Wi-Fi (2.4 GHz) Modbus TCP	PoE Ethernet Modbus TCP	DI (Dry)	DO	Audio Playback	Sound Pressure Level / Output
	ALMS-Horn-RGB (Cybersecurity Type)	-	-	✓	1	Open Collector (Sink) DC 30V / 400mA x1	Tone / 4mode	100 ±5dB @ 10cm/3.0 KHz
	ALM-Horn-RGB	-	-	✓				
	ALM-Horn-BR	-	-	-				
	ALM-Horn-WF-BR	-	✓	-				
	ALM-Horn-MRTU-BR	✓	-	-				
								120 ±5dB @ 15cm/3.2 KHz

3

iSOS Wireless Emergency Call System

	Model	Frequency	Transmission Distance (LoS)	IP Rating	Battery	Installation
	iSOS-ALM-Horn Alarm Siren Module			-	-	Wall-mounted
	iSOS-100 Emergency Call Button			-	CR123A (3.0 VDC) Primary	
	iSOS-109 Emergency Call Button	433.1000 ~ 434.6000 MHz	50 m	-	18650 (3.3 VDC) Rechargeable	
	iSOS-300-IP65 Emergency Call Button			IP65	CR123A (3.0 VDC) Primary	
	iSOS-309-IP65 Emergency Call Button			IP65	18650 (3.2 VDC) Rechargeable	

