ICP DAS

iSOS-109   SP-S2-DS

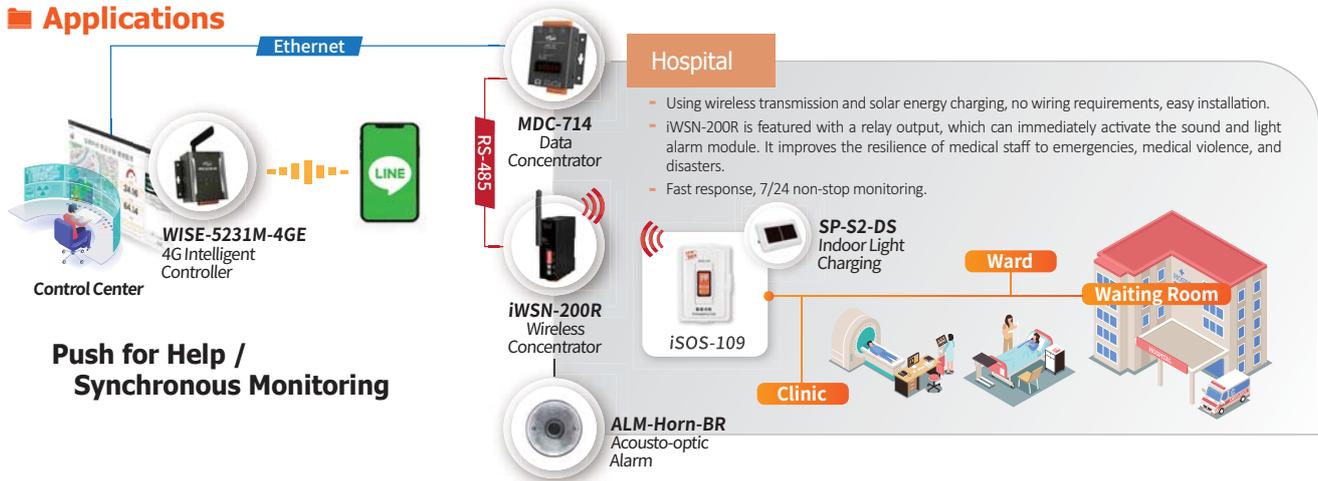iSOS Indoor light charging emergency call button module
(Asia Only)

🅰 Features

- Provide emergency message for help report function
- Powered by built-in rechargeable Lithium Ion battery
- Supports Dye-sensitized cell charging
- Supports 433MHz Radio Frequency
- Active online report
- Conversion efficiency less affected by light angle
- Generate electricity in dim light environment

RoHS

■ Introduction

The iSOS-109 is a wireless emergency call button product with a built-in rechargeable 18650 lithium-ion battery. With SP-S2-DS dye-sensitized charging module, it can be charged under indoor light conditions and can be used continuously without replacing the battery. Through Sub-1G RF communication interface, it can approach real wireless deployment. It provides emergency help return function and improves personal safety protection. This system is very suitable for public area construction. For example, public toilets, hospitals, nursing homes, open campuses, large parking lots, etc. iSOS-109 delivers reliable electricity and reduces the cost of wiring. Realize emergency information transmission, meet low energy consumption, wireless communication, and emergency monitoring, etc., greatly reduce the time and human resources required for system construction and maintenance.

■ Applications

Ethernet

WISE-5231M-4GE 4G Intelligent Controller

Control Center

Push for Help / Synchronous Monitoring

MDC-714 Data Concentrator

RS-485

iWSN-200R Wireless Concentrator

ALM-Horn-BR Acousto-optic Alarm

Hospital

- Using wireless transmission and solar energy charging, no wiring requirements, easy installation.
- iWSN-200R is featured with a relay output, which can immediately activate the sound and light alarm module. It improves the resilience of medical staff to emergencies, medical violence, and disasters.
- Fast response, 7/24 non-stop monitoring.

SP-S2-DS Indoor Light Charging

iSOS-109

Clinic

Ward

Waiting Room

■ System Specifications

■ iSOS-109

Model	iSOS-109
RF	
Channels	0 ~ 15 (Selectable by DIP Switch)
Group ID	0 ~ 3 (Selectable by DIP Switch)
Radio Frequency	433.1000 ~ 434.6000 MHz
Transmission Power	9±1dBm (PA Off) / 18±1dBm (PA On)
Transmission Cycle	1 / 10 / 30 / 60 Secs. 3 / 5 / 10 / 30 Mins. (Selectable by DIP Switch) 1 Sec.(Emergency Triggered Only)
Transmission Distance (LoS)	50 m
Node ID	1 ~ 31 configured by DIP switch
Antenna	
Type	0 dBi Spring antenna (Omni-directional)
Power	
Consumption	0.596mAh @1 Day
Battery	18650 lithium-ion battery (3.3 VDC, 1100 mAh,Rechargeable)
Mechanical	
Dimensions (mm)	92 x 136 x 52 (W x L x H)
Installation	Wall-mount

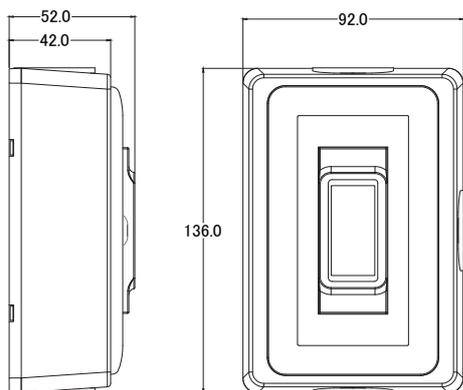| Model	iSOS-109
Environment	
Operating Temperature	-25°C ~ +60°C
Storage Temperature	-30 ~ +80°C (No battery included) -20 ~ +45°C (Battery included)
Humidity	20 ~ 65% RH(Non-condensing)

■ SP-S2-DS

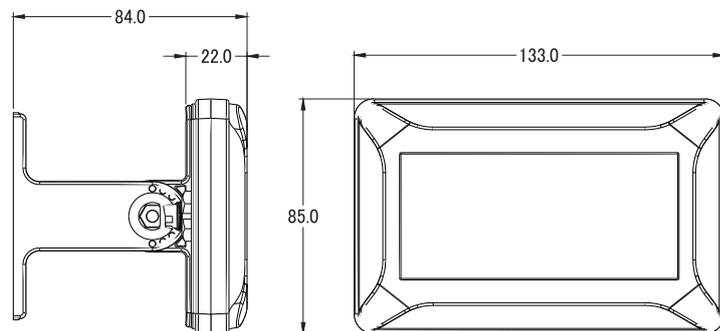| Model	SP-S2-DS
Power	
Power (mW)	≥1.67
Voc (V)	0.55 ~ 0.65
Isc (mA)	≥3.51
Mechanical	
Dimensions (mm)	133 x 85 x 84(W x L x H)
Installation	Wall-mount / Magnet adsorption
Environment	
Operating Temperature	-25°C ~ +60°C
Storage Temperature	-20 ~ +45°C
Humidity	10 ~ 90% RH(Non-condensing)
* Light source for measurement: 1000lux LED	

■ Dimensions (Units: mm)
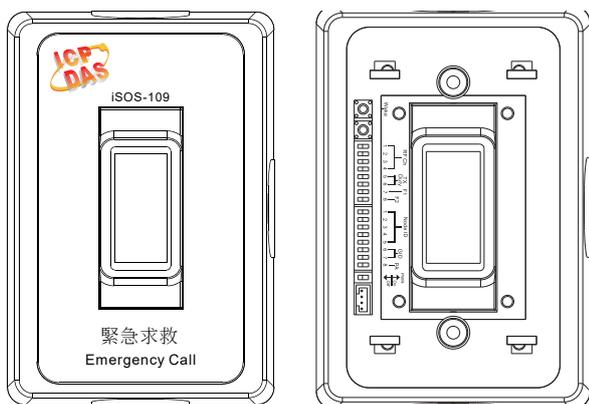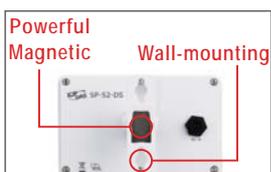
iSOS-109

Left View

Front View

52.0
42.0
92.0
136.0

SP-S2-DS

84.0
22.0
85.0
133.0

Left View

Front View

■ Appearance

iSOS-109

iSOS-109

緊急求救
Emergency Call

SP-S2-DS

	Powerful Magnetic Wall-mounting	Angle adjustment mechanism	Waterproof connector
	Easy installation	Adjustable installation angle	Waterproof connector, Suitable for hight humidity environment

■ Ordering Information

iSOS-109 CR	iSOS Indoor light charging emergency call button module (RoHS) (Asia Only)
iSOS-109/S2 CR	iSOS Indoor light charging emergency call button module (RoHS) (Asia Only), Includes SP-S2-DS charging module
SP-S2-DS CR	Dye-sensitized cell charging module (RoHS)

■ Related Products

iSOS-100 CR	iWSN indoor emergency call button module(RoHS) (Asia Only)
iSOS-300-IP65 CR	iSOS waterproof emergency call button module (RoHS) (Asia Only)
iSOS-800-PT CR	iSOS Handheld emergency call button module (RoHS) (Asia Only)