



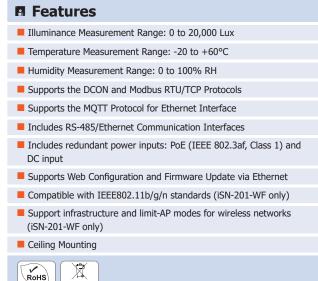
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iSN-201-E/iSN-201-BLE/iSN-201-WF

Ambient Light, Temperature and Humidity Sensor Module



Introduction

The iSN-201 series modules can be used for measuring indoor illumination, temperature and humidity. A wide range of interface connections can be selected to suit individual needs, including RS-485/ Ethernet/ Bluetooth/ Wi-Fi models. The various models provide support for the DCON and Modbus RTU/TCP protocols, and can be easily integrated into existing HMI/SCADA/ central control systems.

The screw-free quick-connect connector and the DIP and rotary switches make the modules easy to install, repair, and maintain. The white minimalist exterior design ensures that it easy to match with interior decoration.



The WISE-5231 and electric curtain combination with the illumination meter iSN-201-E can easily be setup through a simple web interface and logic control. The two-way interlocking mode integrates the electric curtains and the Building Management System (BMS), and collects environmental sensing data simultaneously. When detecting the indoor temperature or humidity rises or the intensity of sunshine is strong, it will automatically activate the pulling motion of the electric curtain, or enable a personalized scenario to control all curtains or specific curtain combinations in the home environment. In addition, the user can edit the scenario and set up the curtain automation at scheduled times.



Specifications

Model	iSN-201-E	iSN-201-BLE	iSN-201-WF		
Illuminance Measurement					
Range	0 to 20,000 Lux				
Resolution	1 Lux				
Accuracy	±5%				
Temperature Measurement					
Measurement Range	-40 to +120°C				
Fire Alarm	65°C (Programmable)				
Resolution	0.1°C				
Accuracy	Typical: ±0.5°C; refer to figure 2				
Relative Humidity Measurement					
Range	0 to 100% RH				
Resolution	0.1% RH				
Accuracy	Typical: ±3% RH @ 20 ~ 80% RH; refer to figure 1				

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Model	iSN-201-E	iSN-201-BLE	iSN-201-WF
Relay Output			
Channels	1		
Туре	Power Relay, Form C		
Max. Load Current	NO: 10 A @ 250 VAC NC: 6 A @ 250 VAC		
Load Wattage	Incandescent Bulb: 1500 W Max.; Fluorescent Lamp: 300 W Max.		
Communication			
Node Address	Hardware: 96 to 127 / Software: 1 to 255		
Protocol	DCON, Modbus RTU, Modbus TCP, MQTT		
Wired Interface	Yes, RS-485 X 1 and Ethernet/PoE X1		
Wireless Interface	-	Bluetooth	Wi-Fi
Supported Standard	-	BT 4.0	IEEE 802.11 b/g/n
Wireless Mode	-	Slave	Infrastructure/Limited AP
Wireless Security	-	AES 128	WEP, WPA ,WPA2
Transmission Range	-	20 m(LOS)	50 m(LOS)
LED Indicators			
LED Indicators	Yes,1 as Power, 1 as Alarm Indicator. 1 as Communication Indicator.		
EMS Protection			
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal, ±8 kV Air for Random Point		
EFT (IEC 61000-4-4)	±4 kV for Power Line		
Power Requirements			
Power Supply	10 to 48 VDC, PoE		
Reverse Polarity Protection	Yes		
Power Consumption	2 W	2.3 W	2.3 W
Mechanical			
Installation	Ceiling /surface mounted		
Protection Class	IP20		
Dimensions(D x H)	Ø 150 mm x 53 mm		
Environment			
Operating Temperature	0 to +75°C		
Storage Temperature	-30 to +80°C		
Humidity	10 to 90% RH, Non-condensing		

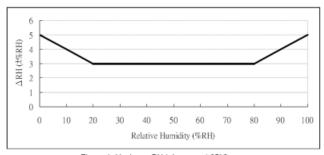


Figure 1: Maximum RH-tolerance at 25°C per sensor

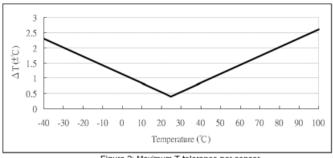
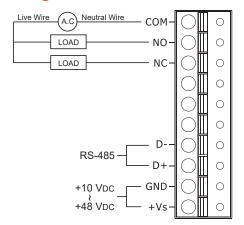


Figure 2: Maximum T-tolerance per sensor

■ DIP Switch Settings

— 9		SW1	ON	OFF
		1	DCON	Modbus
H		2	SW Config.	HW Config.
2	—SW1	3	High Node	Low Node
3 4		4	INIT	Run
ON 1 2		5		
4		6		
2 3		7	Poss	an cod
N □-		8	Reserved	
	— Address	9		
	1.2.31.000	10		

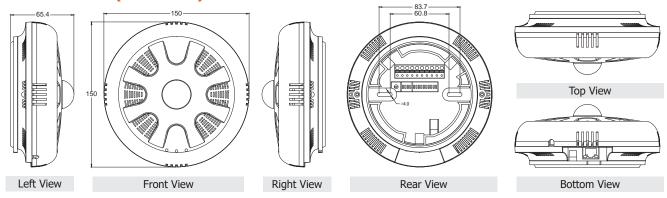
Pin Assignments & Wire Connections



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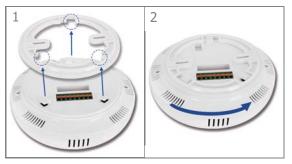


■ Dimensions (Units: mm)

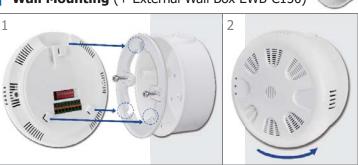


■ Installation

Ceiling Mounting

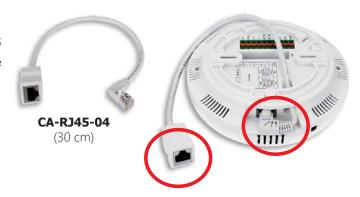


■ Wall Mounting (+ External Wall Box EWB-C150)



CL-2xx-E + RJ45 Cable:

CL-2xx-E (Ethernet Type) are with optional angle-bent RJ45 cable to smoothly install the Ethernet plug in the hole of the ceiling-mounted.



Ordering Information

iSN-201-E	Illuminance, Temperature and Humidity Sensor Module (Ethernet)	
iSN-201-BLE	Illuminance, Temperature and Humidity Sensor Module (RS-485, Ethernet, Bluetooth) (RoHS) (Asia Only)	
iSN-201-WF	Illuminance, Temperature and Humidity Sensor Module (RS-485, Ethernet, Wi-Fi) (RoHS) (Asia Only)	

Accessories

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