

### [Features]

- Small in size, light in weight, and waterproof quick connector, it's easy to install.
- With Automatic Temperature Compensation(ATC).
- RS-485 communication and Bluetooth(optional).
- It has software utility which can set ID/ Baud rate/ calibration and other functions.
- Outdoor louver shell design, accurate sensing, fast response and data transmission high efficiency.
- With 24VDC and 5VDC power supply mode.
- Optional options: TR/CO2/PM2.5/PM10/O2/NH3/H2S/dB/PR
- The device can calculate the Heat Index (HI) in real-time and provide the correspondi reading. (Temperature and humidity options are required.)
- JNC Cloud Box(optional) can directly transmit data to the cloud through NB-IoT.
- JNC BT function(optional) is able to establish the wireless BT network.



**[Application]:** Orchid Garden · Greenhouse · Animal agriculture · Environmental monitoring · Factory self-management · Industrial safety

### [Optional Code]

OA4 – Code1 – Code2

Code1	Sensors(multiple choice)	Code 2	Communication
TR	Temp/RH	N	RS-485
TRHI	Temp/RH/Heat Index (HI)		
CO2	CO2		
P2	PM2.5		
P1	PM10		
O2	O2		
NH3	NH3		
H2S	H2S	BT	Bluetooth
dB	Noise		
PR	Pressure		

### [Specifications]

Power	◆DC input : 9 ~ 36V    ◆Power consumption : 1.8W		
Environment	-10°C ~ 60°C · 0 ~ 100%(non-condensing)		
Communication	RS-485 Modbus RTU (optional Bluetooth)		
Housing Material	ABS anti-UV		
Installation	Louver wall mounting type	Certificate	CE ,FCC
Dimension (mm)	188X140/mm	Mounting bracket dimension	195x90×125.9mm
Weight	≤ 2 kg	Wire length	3 meter

# [Specifications]

Sensors Principle	Range	T90	Operating temperature	Resolution	Accuracy	Environmental equilibrium time
Temp (Resistance)	-40~125°C	<60 S	-20~60°C	0.1°C	±0.4°C	10min
RH (Capacitive)	0~100%	<60 S	-20~60°C	0.1%	±3%	10min
PM2.5 (Laser)	0~1,000µg /m <sup>3</sup>	<90 S	-10°C~65°C	0.1 µg/m <sup>3</sup>	±10µg/m <sup>3</sup> ±5% of Reading	5min
PM10 (Algorithm)	0~1,200µg /m <sup>3</sup>	<90 S	-10°C~65°C	0.1 µg/m <sup>3</sup>	±10µg/m <sup>3</sup> ±5% of Reading	5min
CO2 (Infrared)	0~10,000ppm	<120S	0~50°C	1ppm	±30ppm ±3% of Reading	10sec
O2 (Electrochemical)	0~30%	<60S	-10~55°C	0.05%	±1 of Reading	5min
NH3 (Electrochemical)	0-100ppm	<60S	-10~50°C	0.01ppm	±2%	5min
H <sub>2</sub> S (Electrochemical)	0~100ppm	<60 S	-10~50°C	0.01ppm	±2%	5min

Noise Measurement Range	Frequency Range	Resolution	Accuracy	Operate Temperature
30 ~ 120dBA	20 ~ 20K Hz	0.1 dBA	3% Fs	-20 ~ 60°C

Pressure Range	Resolution	Accuracy	Operate Temperature
300 ~ 1100 hPa	1 hPa	± 1 hPa	-40 ~ +85°C

# [Heat Index]

First level notice	26.7 ~ 32.2	Third level danger	40.6 ~ 54.4
Second level extra attention	32.2 ~ 40.6	Fourth level extremely dangerous	> 54.4

# [ Dimension ] mm

