

### [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.
- Multiple test items can be selected according to optional codes, with a maximum of 13 test items..
- The device can calculate the Heat Index (HI) in real-time and provide the corresponding hazard level for 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.
- CW9 passed ITRI certification, and it obtained the highest level (Level 1).



**[Applications]:** Weather station · Environmental monitoring · Factory self-management · Apparatus agriculture.

**[Optional Code]** CW9 -  -

Code1	Sensors(multiple choice)	Code1	Sensors(multiple choice)	Code 2	Communication
TR	Temp / RH	H2S	H2S	N	RS-485
TRHI	Temp/RH/Heat Index (HI)	NO2	NO2		
CO2	CO <sub>2</sub>	SO2	SO2		
P2	PM2.5	CH4	CH4		
H	HCHO	PID	Photoionization TVOC	BT	Bluetooth
CO	CO	9	Gas nine-in -one (V- Semiconductor)		
V	TVOC (Semiconductor)		Gas nine-in -one (V-PID)		
O3	O3	9-PID	Noise		
P1	PM10(algorithm)	dB	Pressure		
O2	O2	PR			
NH3	NH3				

### [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)	236X140/mm	Mounting bracket dimension	195x90x125.9mm
Weight	≤2 kg	Wire length	3 meter

### [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

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	
CO <sub>2</sub> (Infrared)	0~10,000ppm	<90 S	0~50°C	1ppm	±30ppm ±3% of Reading	10sec	
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	
HCHO (Electrochemical)	0.01~2.00ppm	<120 S	-10°C~50°C	0.01ppm	≤±0.02ppm ±2% of Reading	10min	
CO (Electrochemical)	0~100ppm	<180 S	0°C~50°C	0.1ppm	±5ppm	10min	
TVOC (Semiconductor)	0~60ppm	<90 S	0°C~40°C	Range	Resolution	±10%	10min
				≤2.008 ppm	1 ppb		
				≤11.11 ppm	6 ppb		
≤60 ppm	32 ppb						
O <sub>3</sub> (Semiconductor)	0.01~2.00ppm	<120 S	0°C~40°C	0.01ppm	±10%	10min	
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	
O <sub>2</sub> (Electrochemical)	0 ~ 30%	<60S	-10°C~55°C	0.05%	±1% of Reading	5min	
NH <sub>3</sub> (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	
NO <sub>2</sub> (Electrochemical)	0-20ppm	<60S	-0~50°C	0.01ppm	±2%	5min	
SO <sub>2</sub> (Electrochemical)	0-20ppm	<60S	-0~50°C	0.01ppm	±2%	5min	
CH <sub>4</sub> (Semiconductor)	0-100ppm	<90 S	0°C~40°C	0.1ppm	±10%	10min	
PID100 (Photoionization)	0-100ppm	≤5S	-10~60°C	25ppb	±2%	≤60 sec	

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

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

[ Dimension ] mm

