JNC City weather detector

CW9

[Features]



- Compact, lightweight; waterproof quick connector for easy install.
- Built-in automatic temperature compensation.
- RS-485 communication; Bluetooth optional.
- Utility software to set ID, baud rate, calibration, etc.
- Industry-leading: 18 selectable items, 15 measured at once.
- Lightweight louvered outdoor housing for accurate, fast sensing and efficient data transfer.
- Real-time Heat Index (HI) and hazard-level readout. (Temperature/humidity option required)
- With the optional JNC Cloud Box, data uploads to the cloud directly via 4G or NB-IoT.
- With the optional JNC BT function, up to 100 nodes form a wireless mesh monitoring network.
- Taiwan MOE PM2.5 classification Level 4 (top grade), usable as a national-station reference.
- The sound level meter complies with the IEC 60942 calibration standard.

[Applications]

Widely used in weather stations, environmental monitoring, factory self-management, and protected agriculture.

[Optional Code] CW9-Code 1-Code 2-Code 3

Code1	Sensor (multi-select)	Code1	Sensor (multi-select)	Code2	Comm.	Code3	Connector
TR	Temp / RH	H2S	Hydrogen Sulfide	N	RS-485	N	Bare wire
TRHI	Temp/RH/Heat Index HI	NO2	Nitrogen Dioxide				
CO2	CO2 (Infrared)	SO2	Sulfur Dioxide				
P2	PM2.5	CH4(ppm)	Methane (Semiconductor)				
H	HCHO	CH4(LEL)	Methane (Catalytic)				
CO	Carbon Monoxide	CH4(VOL)	Methane (Infrared)	BT	Bluetooth	C	Quick connector
V	TVOC (Semiconductor)	PID	PID TVOC				
O3	Ozone	9	9-in-1(V-Semiconductor)				
P1	PM10	9-PID	9-in-1(V-PID)				
O2	Oxygen	dB	Noise				
NH3	Ammonia	PR	Atmospheric Pressure				

[Specifications]

Power Supply	◆DC Input：9～36V ◆Power Consumption：1.8W		
Environment	-10℃~60℃，0~100%(non-condensing)		
Communication	RS-485 Modbus RTU (Bluetooth optional)		
Housing	ABS, UV-resistant		
Mounting	Louvered wall-mount	Safety Cert.	EU CE & US FCC certified
Product Size	236X140/mm	Bracket Size	195x90x125.9mm
Weight	≦2 kg	Cable Length	3m

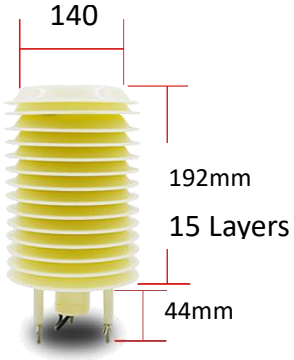
[Heat Hazard Risk Level]

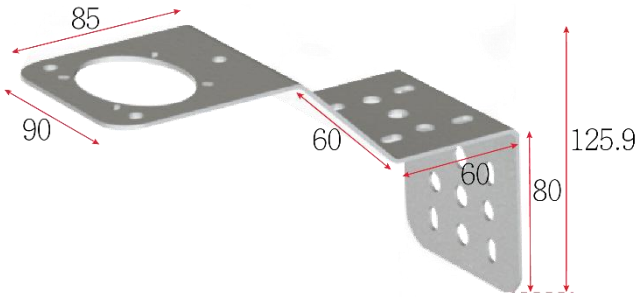
Level 1 Caution	26.7～32.2	Level 3 Danger	40.6～54.4
Level 2 Extra Caution	32.2～40.6	Level 4 Extreme Danger	> 54.4

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Item Principle	Range	T90	Operating Temp	Resolution	Accuracy	Response Time
Temp (Resistive)	-40~125℃	<60 S	-20~60℃	0.1℃	±0.4℃	10min
RH (Capacitive)	0~100%	<60 S	-20~60℃	0.1%	±3%	10min
CO2 (Infrared)	0~10,000ppm	<90 S	0~50℃	1ppm	±30ppm ±3% of Reading	10sec
PM2.5 (Laser)	0~1,000μg / m^3	<90 S	-10℃~65℃	0.1 μg/ m^3	±10μg/ m^3 ±5% of Reading	5min
HCHO (Electrochemical)	0.01~2.00ppm	<120 S	-10℃~50℃	0.01ppm	≦±0.02ppm±2% of Reading	10min
CO (Electrochemical)	0~100ppm	<180 S	0℃~50℃	0.1ppm	±5ppm	10min
TVOC (Semiconductor)	0~60ppm	<90 S	0℃~40℃	Range / ±10% ≦2.008 ppm / 1 ppb ≦11.11 ppm / 6 ppb ≦60 ppm / 32 ppb	±10%	5min
O3 (Semiconductor)	0.01~2.00ppm	<120 S	0℃~40℃	0.01ppm	±10%	10min
PM10 (Algorithm)	0~1,200μg / m^3	<90 S	-10℃~65℃	0.1 μg/ m^3	±10μg/ m^3 ±5% of Reading	5min
O2 (Electrochemical)	0 ~ 30%	<60S	-10℃~55℃	0.05%	±1% of Reading	5min
NH3 (Electrochemical)	0-100ppm	<60S	-10~50℃	0.01ppm	±2%	5min
H2S (Electrochemical)	0~100ppm	<60 S	-10~50℃	0.01ppm	±2%	5min
NO2 (Electrochemical)	0-20ppm	<60S	0~50℃	0.01ppm	±2%	5min
SO2 (Electrochemical)	0-20ppm	<60S	0~50℃	0.01ppm	±2%	5min
CH4 (Semiconductor)	0-100ppm	<90 S	0℃~40℃	0.1ppm	±10%	10min
CH4 (Catalytic)	(3~100)%LEL	≦30 S	-20~55℃	0.01%LEL	±5% F.S	3min
CH4 (Infrared)	(0~100)%VOL	≦30 S	-20~60℃	0.001%VOL	±5% of Reading	3min
PID100 (PID)	0-100ppm	≦5S	-10~60℃	25ppb	±2% (Repeatability)	60 sec
Noise (dB)	30~120dB (20~20KHz)	≦3 S	-20~60℃	0.1dB	≦±0.3dB	30 S
Atmospheric Pressure (PR)	300~1100hPa	≦3 S	-40~+85℃	1 hPa	±1hPa	30 S

[Dimensions] mm





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