

# BACnet CO<sub>2</sub> Detector - Wall Mount

## Optional Temperature and Humidity Detection

### HWM-CO2-N10C/30C Series



### Product Detail

- Real time carbon dioxide detection and monitoring
- Temperature and humidity detection and display
- Three-colour backlit LCD and buzzer alarm
- Provide 1 x on/off output to control a ventilator
- Wall mounting and desktop designs
- Can be used as standalone ventilation controller
- CE-approval

### Features

- + BACnet MSTP communication
- + CO<sub>2</sub> detection with 0-2000ppm range
- + 0-5000ppm/0-50000 ppm range selectable
- + NDIR infrared CO<sub>2</sub> sensor with More than 10 years lifetime
- + Patented self-calibration algorithm
- + Optional temperature and humidity detection
- + Provide up to 3xanalog linear outputs for measurements
- + Optional LCD display of CO<sub>2</sub> and temperature and humidity
- + 24VAC/VDC power supply
- + EU standard and CE-approval

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### Specifications

CO <sub>2</sub> Measurement		
Sensing element	Non-Dispersive Infrared Detector (NDIR)	
CO <sub>2</sub> range	0 - 2000ppm 0 - 5,000ppm / 0-50,000ppm optional	
CO <sub>2</sub> Accuracy	±30ppm + 3% of reading @22°C	
Temperature dependence	0.2% FS per °C	
Stability	<2% of FS over life of sensor (15 year typical)	
Pressure dependence	0.13% of reading per mm Hg	
Calibration	Self-Calibration Algorithm	
Response time	<2 minutes for 90% step change typical	
Signal refresh frequency	2 seconds	
Warm-up time	2 hours (first time) / 2 minutes (operation)	
Temperature		
Humidity		
Measuring range	0°C-50°C (default)	0 -100%RH
Accuracy	±0.4°C (20°C - 40°C)	±3%RH (20%-80%RH)
Display resolution	0.1°C	0.1%RH
Stability	<0.04°C / year	<0.5%RH/year
General Data		
Power supply	24VAC/VDC±10%	
Consumption	2.2 W max. ; 1.6 W avg.	
Analog outputs	1- 3 X analog outputs 0-10VDC(default) or 4~20mA (selectable by jumpers) 0-5VDC (selected at placing the order)	
Operation conditions	0 - 50°C; 0~95%RH, non-condensing	
Storage conditions	10~50°C (50~122°C) 20~60%RH	
Net Weight	250g	
Dimensions	130mm(H)×85mm(W)×36.5mm(D)	
Installation	wall mounting with 65mm×65mm or 2"×4" wire box	
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30	
Standard	CE-Approval	

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### Models Selection Guide

HWM-CO2-N X Q C -Y 0 1 -U 02/05/50 -T/TH -Txx

- X: LCD or no LCD  
1- Without LCD, 24VAC/VDC power supply  
3- LCD display, 24VAC/VDC power supply
- C: 24VAC/VDC power supply
- Y: Number of analog outputs  
3- 3 x analog outputs (for CO<sub>2</sub>, temperature, humidity)  
2- 2 x analog outputs (for CO<sub>2</sub>, temperature)  
1- 1 x analog output (for CO<sub>2</sub>)  
0- no analog output
- U: Type of analog output  
V- 0~10VDC (default)  
A- 4~20mA  
V5- 0~5VDC (can not be changed)
- 02/05/50: CO<sub>2</sub> range  
02- 0~2,000ppm  
05- 0~5,000ppm  
50- 0~50,000ppm
- T/TH: temperature option/ temperature and humidity option
- Txx: temperature scaling  
T05: 0°C ~50°C default (without the postfix indicates the default)  
T06: 0°C ~60°C  
T26: -20°C ~60°C

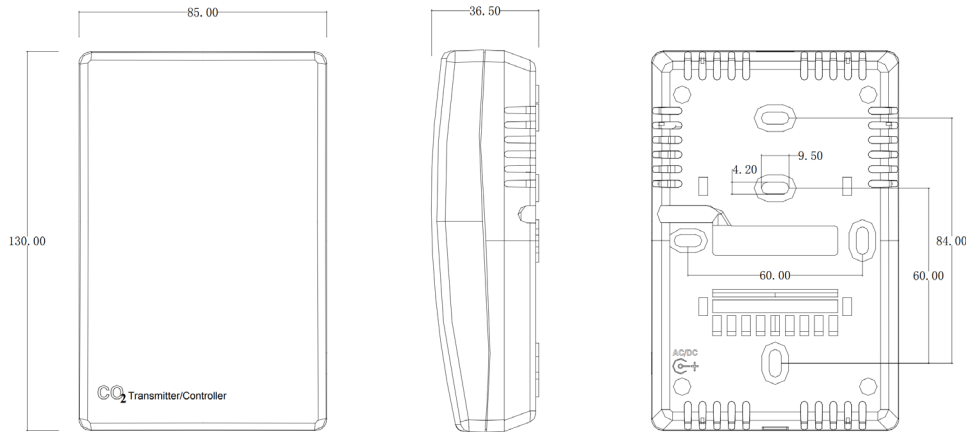
Accessory (selectable while ordering)

921: wall mounting plate

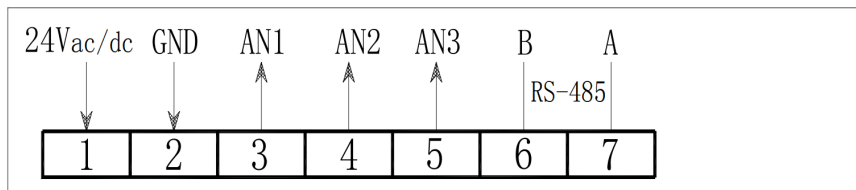
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### Dimensions and Mounting



### Wiring Diagram



### 921-Wall Mounting Plate

