

### Product Descriptions

VC-200N is a new type of nitrogen dioxide gas sensor specially designed for gas detection in enclosed parking spaces and vehicle maintenance workshops. The sensor adopts stable electrochemical sensing technology and comes with various output signal options. It is designed for connection to BMS systems and/or alarm devices.

The combustion process of diesel engines emits nitrogen oxides that are harmful to the human body. The accumulation of pollutants in poorly ventilated parking spaces will cause health hazards to staff and visitors.

VC-200N is used to monitor the environment air quality and control the ventilation equipment so as to ensure good indoor air quality and reduce energy used in mechanical ventilation. The product is suitable for ventilation control for enclosed car park, diesel generator rooms, maintenance workshops and other places.



### Specifications

#### General

Measurement principle	Electrochemical
Sampling principle	natural gas diffusion
Measurement range	0 – 20 ppm NO <sub>2</sub>
Accuracy	±3% FS
life expectancy	≅ 24 months
Repetition rate	< ±2%
Reaction time	≅ 30 sec.
Annual drift	< ±3%/Year
Operating temperature	-20 ~ +50°C
Operating humidity	15 - 90%RH
Power supply	15 ~ 30VDC or 24VAC
Power consumption	< 2W
Signal output	4 – 20mA to 0 – 20 ppm NO <sub>2</sub> 0 – 10V to 0 – 20 ppm NO <sub>2</sub> RS485 Modbus RTU protocol
shell material	ABS fireproof plastic
Certifications	CE

### Models

VC - 200N —

code1	Installation
W	Wall mount
K	Duct mount

code2	output signal
5	0-10V & 4-20mA
4	RS485

code3	LCD display
X	No display
D	LCD display

### housing options



**Duct IP65 housing**  
 size : 142 × 84 × 46 mm (L×W×H)  
 Duct probe length : 140 mm



**Wall IP44 housing**  
 size : 142 × 84 × 46 mm (L×W×H)