

MSD-E

IAQ monitor with combination of multiple gas sensors

Sensor modular and silent design, flexible combination

One monitor with three optional gas sensors

Wall mounting and two power supplies available

Design and production air quality monitoring products for 15 years



We provides hundreds of air monitoring and control products

Features

- 24-hour real-time online monitoring of indoor air quality
- Up to three of following five sensors inside:
Carbon monoxide (CO),
formaldehyde(HCHO),
ozone(O3),
Nitrogen dioxide(NO2),
sulfur dioxide(SO2)
- All above gas sensors are modular and replaceable
- Optional temperature & humidity
- Two power supply available:
12~28VDC/18~27VAC or
100~240VAC
- Three communication interface options are available: Modbus RS485 or RJ45, or WIFI
- The light ring indicates the level of indoor air quality or can be turned off. Which gas concentration could be indicated is optional .
- It could be ceiling mounted or wall mounted.

Main Applications

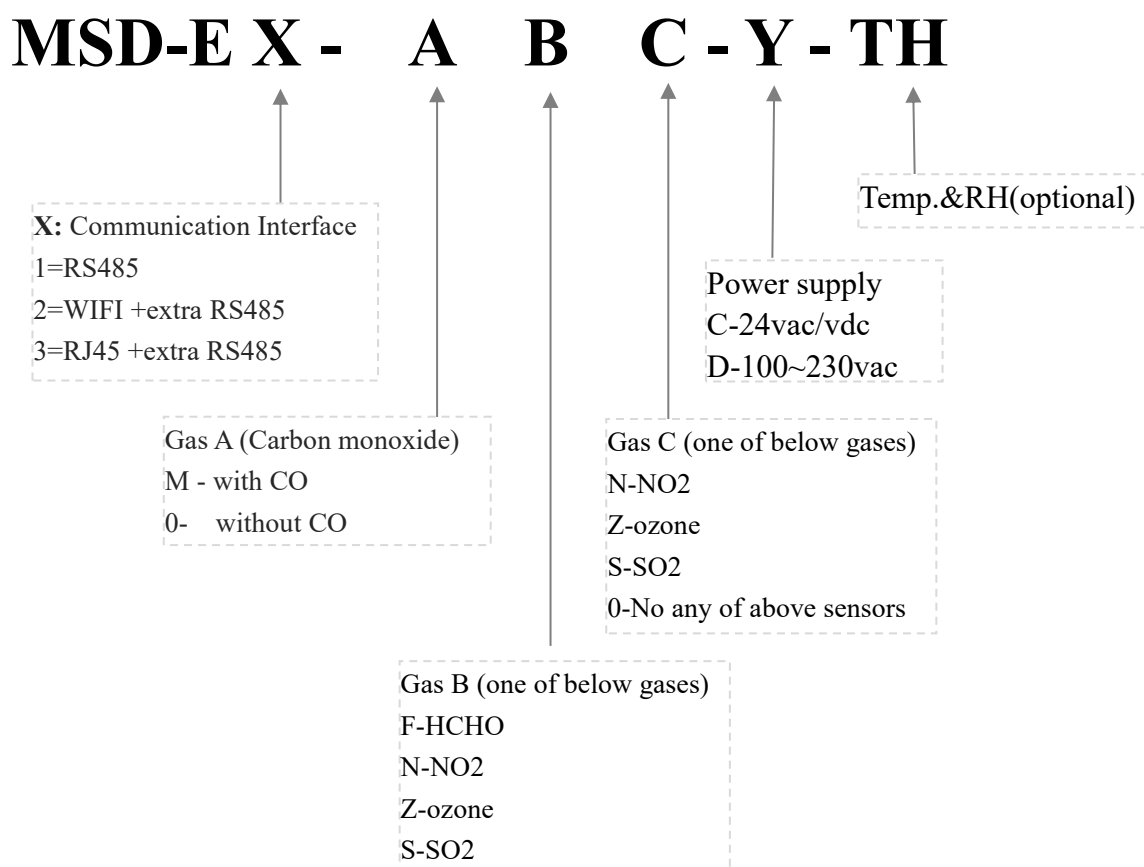
- Green buildings
- Building energy efficiency reform and evaluation system
- Comprehensive real estate projects, etc.

Specifications

General Data	
Gas sensors (Optional)	Modular design sensor, up to 3 gas parameters Temperature and humidity are optional. Optional gas sensors : Carbon monoxide (CO) Two of four gas sensors: formaldehyde(HCHO), ozone(O3), Nitrogen dioxide(NO2), sulfur dioxide(SO2)
Output	RS485/RTU (Modbus) RJ45 /Ethernet WiFi @2.4 GHz 802.11b/g/n
Operating environment	Temperature: 0~50℃ Humidity: 0~90%RH (no condensation)
Storage environment	Temperature: -10℃~50℃ Humidity: 0~70%RH
Power supply	12~28VDC/18~27VAC or 100~240VAC
Overall dimension	130mm(L)×130mm(W)×45mm(T)
Shell material and IP grade	PC/ABS fire proof material, IP30
Certification standard	CE
CO Data	
Sensor	Electrochemical CO Sensor

Measuring Range	0~100ppm (default)
Output resolution	0.1ppm
Accuracy	±1ppm + 5% of reading
Ozone Data	
Sensor	Electrochemical ozone sensor
Measuring Range	0-2000ug/m3 (0-1000ppb)
Output Resolution	1ug/m3
Accuracy	±15ug/m3+10% of reading
HCHO Data	
Sensor	Electrochemical formaldehyde sensor
Measuring Range	0~0.6mg/m³
Output Resolution	0.001mg/m³
Accuracy	0.003mg/m³ + 10% reading
Temperature and humidity Data	
Sensor	Digital integrated temperature and humidity sensor
Measuring range	Temperature: 0°C~60°C / Humidity: 0~99%RH
Output resolution	Temperature: 0.01°C / Humidity: 0.01%RH
Accuracy	Temperature: ±0.6°C (20°C~30°C) Humidity: ±4.0%RH (20%~80%RH)

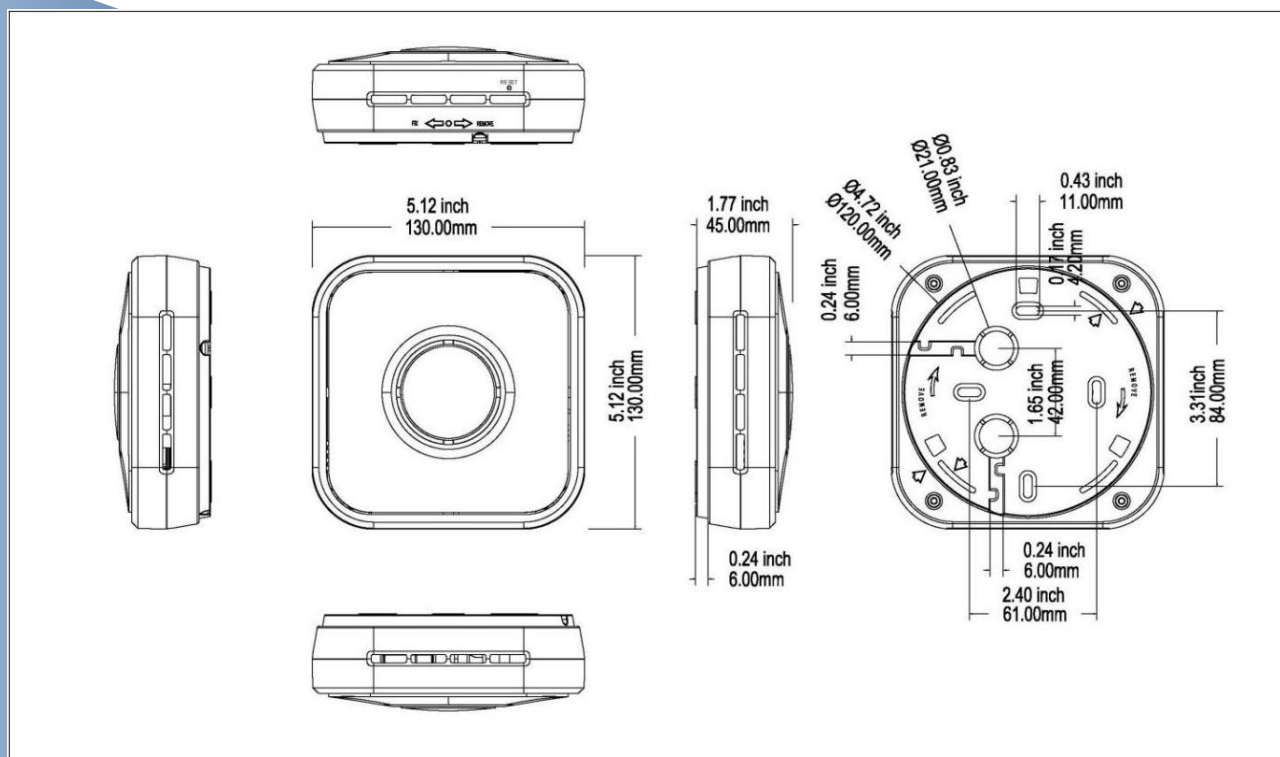
Models Guide



Models Example

option	CO	O3	NO2	SO2	HCHO	Temp. & RH	Output	Power supply
MSD-E1-MFZ-C/D	●	●			●		RS485 (Modbus RTU)	C: 12~28VDC/ 18~27VAC; D: 100~240VAC
MSD-E1-OZN-C/D		●	●					
MSD-E1-MNS-C/D-TH	●		●	●		●		
MSD-E1-MZN-C/D	●	●	●					
MSD-E2-MFZ-C/D	●	●			●		WIFI	C: 12~28VDC/ 18~27VAC; D: 100~240VAC
MSD-E2-OZN-C/D		●	●					
MSD-E2-MNS-C/D-TH	●		●	●		●		
MSD-E2-MZN-C/D	●	●	●					
MSD-E3-MFZ-C/D	●	●			●		RJ45	C: 12~28VDC/ 18~27VAC; D: 100~240VAC
MSD-E3-MZN-C/D-TH	●	●	●			●		
MSD-E3-MZN-C/D	●	●	●					

Dimensions



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