

Sensor Comparison and Selection Guide Table

1. CO₂, CH(Hydrocarbon) Modules

○ : Yes, ● : Order option, X : No

Application list : A : Software ACDL(Indoor ventilation,HVAC), G: Green house, L : Low power, LG: Lowpower+ Greenhouse

Types	Model	Sensing Gas	Supply Voltage	Size (mm)	Accuracy	Outputs						Subsidiaries with suffix	Application	Marked as
						Range (ppm)	UART Serial	I2C	PWM	Linear Voltage	Digital Alarm			
Module	S-110	CO ₂	5 VDC (4.75-5.25)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K	○	○	X	●	X	A	Residential, Agricultural	Small, Stable, popular
Module	S-110H	CO ₂	12 VDC (9.0-18.0)	39x32x18.5	50ppm±3%	0~2K,3K,5K,10K	○	○	●	●	X	A	Residential, Agricultural	Small, Stable, popular
Module	S-300 S-300-3V	CO ₂	5 VD (4.75-5.25) 3 VDC (3.20~3.60)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	●	○	A, G, L, LG	Residential, Agricultural, Weather	Low-Power popular
Module	S-300E	CO ₂	5 VDC (4.75~5.25)	33x33x13.1	50ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	X	●	X	A	Residential	Small, Economical, popular
Module	IoT-S300E	CO ₂	5 VD (4.75-5.25) 3 VDC (3.20~3.60)	33x33x13.1	50ppm±5%	400~5K	○	●	X	X	X		Residential, Incubator	High accuracy, stability
Module	D-300 D-300-3V	CO ₂	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	●	○	G, L, LG	Residential, Agricultural, Weather	World Smallest Dual Beam, popular
Module	T-110 T-110-3V	CO ₂	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	19x29.3x8.5	50ppm±3%	400~2K,3K,5K,10K, 20K, 30K, 50K,10K	○	○	●	●	○	A, G, L, LG	Residential, Incubator	Battery, Smallest, popular
Module	T-200 T-200-3V	CO ₂	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	19.4x30x10.3	50ppm±3%	400~2K,3K,5K,10K, 20K, 30K, 50K,100K	○	○	●	●	X	A, G, L, LG	Residential, Incubator	Battery, Smallest, popular
Module	T-300A T-300A-3V	CO ₂	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	19x31x8.2	25ppm±5%	400~2K, 3K, 5K, 10K	○	○	○	X	○	G	Residential, Incubator	Smallest, popular
Module	B-530	CO ₂	12 VDC (9.0~15.0)	65x50x20	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	X	X	○	X	G	Residential, Agricultural	High accuracy, stability
Module	CxHy-S3 CxHy-S3-3V	CH ₄ ,C ₂ H ₄ ,C ₃ H ₈ , C ₄ H ₁₀	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	33x33x13.1	±3% F. S.	0~ 50K 0~100 % LEL % (1 % unit)	○	○	●	●	○	G, L	Industrial Gas Leakage	Each gas selection

Module	CxHy-D3 CxHy-D3-3V	CH4,C2H4,C3H8, C4H10	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	33x33x13.1	±3% F. S.	0~ 50K 0~100 % LEL % (1 % unit)	○	○	●	●	○	G, L	Industrial Gas Leakage, Agricultural	Dual Beam, Small size, Each gas selection
Module	CxHy-LD/LF-3V	CH4,C2H4,C3H8, C4H10	3 VDC (3.20~3.60)	40x38x17.5	±3% F. S.	0~10% LEL 0~100% LEL	○	○	X	●	X	G	Industrial Gas Leakage	Dual Beam, Each gas selection
Module	CxHy- K100D/K100F	CH4,C2H4,C3H8, C4H10	12 VDC (9.0~12.0)	76x64x22	±3% F. S.	0~10% LEL 0~100% LEL	○	○	X	●	○	G	Industrial Gas Leakage	The lowest Detection Limit(50ppm), Each gas selection
Module	H-250	CO2	3VDC, 5VDC, 12VDC	32.5x38x19.1	±3% of reading	0~5, 10, 15, 20, 25%	○	○	●	●	○	G	Residential, Industrial, Incubator	High accuracy, stability
Module	D-400	CO2	3 VDC (3.20~3.50) 12 VDC (4.75~12.0)	50x69x26	30ppm ±3%	0~2K,3K,5K,10K	○	●	●	●	X	G	Agriculture, Industrial, Incubator	High accuracy, stability

2. CO2, CO, CH Transmitters

○ : Yes, ● : Order option, X : No

Application list : A : Software ACDL(Indoor ventilation,HVAC), G : Green house, L : Low power, LG: Lowpower+ Greenhouse

Types	Model	Sensing Gas	Supply Voltage	Size	Accuracy	Outputs							Application	Marked as
						Range (ppm)	Current 4~20mA 2~20mA	Voltage 0~10V 2~10V	Relay	Wiring	LCD	RS485 Modbus		
Transmitter	CD-100	CO2	24VDC,AC (18-28)	123x69x40	30ppm±5%	0~2K,3K,5K,10K	○	○	X	3-Wired, 4-Wired	●	X	Residential, Agricultural,	Various selectabe function
Transmitter	CD-100M	CO2	24VDC,AC (18-28)	123x69x40	30ppm±5%	0~2K,3K,5K,10K	○	○	X	4-Wired	●	○	Residential, Agricultural,	Modbus
Transmitter	CD-200	CO2	24VDC,AC (18-28)	123x69x40	30ppm±5%	0~2K,3K,5K,10K	○	○	○	4-Wired	●	X	Residential	with Relay
Transmitter	CD-300	CO2	24VDC,AC (18-28)	123x69x40	30ppm±5%	0~2K,3K,5K,10K, 20K, 30K, 50K, 70K	○	○	X	3-Wired	●	X	Residential, Agricultural, Incubator	
Transmitter	CD-300-D3	CO2	24VDC,AC (18-28)	123x69x40	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	3-Wired, 4-Wired	●	○	Residential, Agricultural, Incubator	CO2 One board, option selectable in main board
Transmitter	CD-400	CO2	24VDC,AC (18-28)	123x70x43	50ppm±3%	0~2K,3K,5K,10K	○	○	○	4-Wired, 3-Wired	●	X	Residential, Agricultural, Workplaces	with Relay

Transmitter	AQM-100	CO2, Temp, Humidity, VOCs	12VDC (9~38)	118x74x22	50ppm±3%	0~10K	X	X	X	X	X	○	Residential, Workplaces	RS485 modubus
Transmitter	AQM-200	CO2, CO, Temp, Humidity, VOCs	24VDC, AC(20%)	136x85x24	30ppm±3%	0~10K, 30K	○	○	○	4-Wired	●	○	Residential, Workplaces	Lockable, Mounting holes are configurable for US or European junction boxes.
Transmitter	COD-200	CO (semiconductor type)	24VDC,AC (18-28)	123x69x40	±10% FS ±15% FS	0~250, 300	○	○	●	3-Wired, 4-Wired	●	X	Parking-Lot, Industrial	
Transmitter	COD-200HC	CO	24VDC,AC (18-28)	123x69x40	±10% FS ±15% FS	0~500, 1K	○	○	●	3-Wired, 4-Wired	●	X	Parking-Lot, Industrial	
Transmitter	COD-300	CO	24VDC,AC (18-28)	123x69x40	±3% F. S.	0~250, 1K	○	○	X	3-Wired, 4-Wired	●	X	Parking-Lot	
Transmitter	CH4-CD300 (C2H4,C3H8, C4H10)	CH4,C2H4,C3H8, C4H10	24VDC,AC (18-28)	123x69x40	±3% F. S.	0~ 50K 0~100 % LEL (1 % Resolution)	○	○	●	3-Wired, 4-Wired	●	X	Industrial Gas Leakage	Each gas selection
Transmitter	COD-400	CO	24VDC, AC	123x70x43	±3% F. S.	0~250, 1K	○	○	○	3-Wired, 4-Wired	●	X	Residential, Workplaces	with Relay
Transmitter	M-530	CO2	12 VDC (9.0~15.0)	123x69x40	30ppm±5%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	X	X	○	X	G	35mA	
Transmitter	P-1000	CO2	5 VDC (4.75~5.25) 12 VDC	35Φ(Screw:45Φ)x62	±3% of reading	0~5, 10, 15, 20, 25%	○	X	X	X	X	X	Agricultural, Incubator	Output : I2C, UART
Transmitter	DUT-1000 DUT-2000	CO2	24VDC,AC (18-28)	85x115x49	50ppm±3% 30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	○	3-Wired, 4-Wired	●	○	Industrial, Agricultural	Single/Dual-Beam, Duct Type

3. CO2, VOCs, CO Monitors

○ : Yes, ● : Order option, X : No

Application list : A : Software ACDL(Indoor ventilation,HVAC), G : Green house, L : Low power, LG: Lowpower+ Greenhouse

Types	Model	Sensing Gas	Supply Voltage	Size	Accuracy	Outputs					Application	Marked as	
						Range (ppm)	LCD	LED	Mini USB	RS485 Modubus			Sound Alarm
Module	MT-100	CO2	5VDC USB type	19x29.3x8.5	70ppm ±3%	0~10K	X	○	○	X	X	Smart phone, PC,USB-Bank	World Smallest USB Monitor
Monitors	MB-350	CO2, Temp, Humidity	12VDC (9~38)	135x90x27.5	20ppm±3%	0~10K	X	○	○	●	○	Residential	Accurate, Popular
Monitors	MB-350U	CO2, Temp, Humidity	12VDC (9~38)	135x90x27.5	20ppm±3%	0~10K	○	○	○	●	○	Residential	Accurate, Popular

Monitors	MB-350U-V	CO2, Temp, Humidity, VOCs	12VDC (9~38)	135x90x27.5	30ppm±3%	0~10K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Residential, Agricultural	Accurate, Popular
Monitors	MC-350U-C	CO2, Temp, Humidity, CO	12VDC (9~38)	135x90x27.5	20ppm±3%	0~10K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Residential, Agricultural	Accurate, Popular
Monitors	MC-350U-CV	CO2, Temp, Humidity, VOCs, CO	12VDC (9~38)	135x90x27.5	30ppm±3%	0~10K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Residential, Agricultural	Accurate, Popular

4. Electro-Chemical Type

: Yes, : Order option, X : No

Application list : A : Software ACDL(Indoor ventilation,HVAC), G: Green house, L : Low power, LG: Lowpower+ Greenhouse

Types	Model	Sensing Gas	Supply Voltage	Size (mm)	Accuracy	Outputs						Subsidiaries with suffix	Application	Marked as
						Range (ppm)	UART Serial	I2C	PWM	Linear Voltage	Digital Alarm			
Module	CO-S20	CO	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	33x33x12.5	±3% F. S.	0~250, 1K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Parking-Lot, Industrial	High accuracy, stability
Module	CO-SM30	CO	3 VDC (3.2~3.5) 2.7 VDC (2.5~3.5)	33x33x23	±3% F. S.	0~250, 1K	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Parking-Lot, Industrial	Small, Stable, popular
Module	NH3-SM30	NH3	5 VD (4.75-5.25) 3 VDC (3.20~3.60)	33x33x13.1	±3% F. S.	0~100	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Industrial	High accuracy, stability
Module	H2S-SM30	H2S	5 VDC (4.75~5.25)	33x33x13.1	±3% F. S.	0~100	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Industrial	High accuracy, stability
Module	NO2-SM30	NO2	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	33x33x13.1	±3% F. S.	0.05~10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Industrial	High accuracy, stability
Module	SO2-SM30	SO2	3 VDC (3.2~3.5) 2.7 VDC (2.5~3.5)	33x33x23	±3% F. S.	0~100	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	X	<input type="radio"/>	G	Industrial	High accuracy, stability
Module	O2-SM30	O2	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	19x29.3x8.5	±2% F. S.	0~25%	<input type="radio"/>	<input type="radio"/>	X	X	X	G	Residential, Industrial	High accuracy, stability

5. Flow-through type

: Yes, : Order option, X : No

Application list : A : Software ACDL(Indoor ventilation,HVAC), G: Green house, L : Low power, LG: Lowpower+ Greenhouse

Types	Model	Sensing Gas	Supply Voltage	Size (mm)	Accuracy	Outputs						Subsidiaries with suffix	Application	Marked as
						Range (ppm)	UART Serial	I2C	PWM	Linear Voltage	Digital Alarm			

Flow-through	CO2-S300-PF	CO2	5 VD (4.75-5.25) 3 VDC (3.20~3.60)	58x59.4x26	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	●	●	●	●	●	A, G, L, LG	Industrial	High stability
Flow-through	CO2-D300-PF	CO2	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	58x59.4x26	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	●	●	●	●	●	G, L, LG	Industrial	Dual Beam, High stability
Flow-through	CO-S20-PF	CO	5 VDC (4.75~5.25) 3 VDC (3.20~3.55)	58x59.4x26	±3% F. S.	0~250, 1K	●	●	●	X	●	G	Industrial	High stability
Flow-through	CxHy-D3-PF	CH4,C2H4,C3H8, C4H10	5 VDC (4.75~5.25) 3 VDC (3.20~3.60)	58x59.4x26	±3% F. S.	0~ 50K 0~100 % LEL % (1 % unit)	●	●	●	●	●	L, G, LG	Industrial	Dual Beam, Each gas selection
Flow-through	NH3-SM30-PF	NH3	3 VDC (3.20~3.50) 2.5 VDC (2.60~3.0)	58x59.4x26	±3% F. S.	0~100	●	●	●	X	●	G	Industrial	High stability
Flow-through	H2S-SM30-PF	H2S	3 VDC (3.20~3.50) 2.5 VDC (2.50~3.50)	58x59.4x26	±3% F. S.	0~100	●	●	●	X	●	G	Industrial	High stability
Flow-through	NO2-SM30-PF	NO2	3 VDC (3.20~3.50) 2.5 VDC (2.50~3.50)	58x59.4x26	±3% F. S.	0.05~10	●	●	●	X	●	G	Industrial	High stability
Flow-through	O2-SM30-PF	O2	3 VDC (3.20~3.50) 2.5 VDC (2.50~3.50)	58x59.4x26	±2% F. S.	0~25%	●	●	X	X	X	G	Industrial	High stability