

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	CO ₂	5 VDC (4.75-5.25)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	●	○	A, G, L, LG	Residential, Agricultural, Weather	5.0V input type, Low-Power popular
Module	S-300-3V	CO ₂	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	3.3V input type, 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	D-300	CO ₂	5 VDC (4.75~5.25)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	●	○	G, L, LG	Residential, Agricultural	5.0V input type, World Smallest Dual Beam, popular
Module	D-300-3V	CO ₂	3 VDC (3.20~3.60)	33x33x13.1	30ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	○	●	●	○	G, L, LG	Residential, Agricultural	3.3V input type, World Smallest Dual Beam, popular
Module	T-110	CO ₂	5 VDC (4.75~5.25)	19x29.3x8.5	50ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K,10K	○	○	●	●	○	A, G, L, LG	Residential, Incubator	5.0V input type, Smallest, popular
Module	T-110-3V	CO ₂	3 VDC (3.20~3.55)	19x29.3x8.5	50ppm±3%	0~2K,3K,5K,10K, 20K, 30K, 50K,10K	○	○	●	●	○	A, G, L, LG	Residential, Incubator	3.3V input type, 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 stability
Module	CH ₄ -D3 (C ₂ H ₄ ,C ₃ H ₈ , C ₄ H ₁₀)	CH ₄ ,C ₂ H ₄ ,C ₃ H ₈ , C ₄ H ₁₀	5 VDC (4.75~5.25)	33x33x13.1	±3% F. S.	0~ 50K 0~100 % LEL % (1 % unit)	○	○	●	●	○	L	Industrial Gas Leakage	5V input, Dual Beam, Small size, Each gas selection
Module	CH ₄ -D3-3V (C ₂ H ₄ ,C ₃ H ₈ , C ₄ H ₁₀)	CH ₄ ,C ₂ H ₄ ,C ₃ H ₈ , C ₄ H ₁₀	3 VDC (3.20~3.60)	33x33x13.1	±3% F. S.	0~ 50K 0~100 % LEL % (1 % unit)	○	○	●	●	○	L	Industrial Gas Leakage	3.3V input, Dual Beam, Small size, Each gas selection
Transmitter	M-530	CO ₂	12 VDC (9.0~15.0)	123x69x40	30ppm±5%	0~2K,3K,5K,10K, 20K, 30K, 50K	○	X	X	○	X	G	35mA	

2. CO2, CO, CH Transmitters

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 selectable 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	AQM-100	CO2, Temp, Humidity, VOCs	12VDC (9~38)	118x74x22	50ppm±3%	0~10K	X	X	X	X	X	○	Residential, Workplaces	RS485 modbus
Transmitter	COD-200	CO	24VDC,AC (18-28)	123x69x40	±10% FS ±15% FS	0~250, 300	○	○	●	3-Wired, 4-Wired	●	X	Parking-Lot	
Transmitter	COD-200HC	CO	24VDC,AC (18-28)	123x69x40	±10% FS ±15% FS	0~500, 1K	○	○	●	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	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	●	○	Residential, Agricultural	Single/Dual-Beam, Duct Type

3. CO2, VOCs, CO Monitors

Types	Model	Sensing Gas	Supply Voltage	Size	Accuracy	Outputs						Application	Marked as
						Range (ppm)	LCD	LED	Mini USB	RS485 Modbus	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	○	○	○	●	○	Residential, Agricultural	Accurate, Popular
Monitors	MC-350U	CO2, Temp, Humidity, CO	12VDC (9~38)	135x90x27.5	20ppm±3%	0~10K	○	○	○	●	○	Residential, Agricultural	Accurate, Popular
Monitors	MC-350U-V	CO2, Temp, Humidity, VOCs, CO	12VDC (9~38)	135x90x27.5	30ppm±3%	0~10K	○	○	○	●	○	Residential, Agricultural	Accurate, Popular