

# GS33 / GS34

## CO<sub>2</sub> Transmitter for Wall / Duct Type



### APPLICATIONS

#### Features

- With the high CO<sub>2</sub> concentration indoors, people will feel tired easily. So by controlling the CO<sub>2</sub> value relevantly, people will feel more energetic. CO<sub>2</sub> transmitter now is substantially used inside the buildings and some even being applied in agriculture to help foster the growth the plants in a more healthier and quicker way.

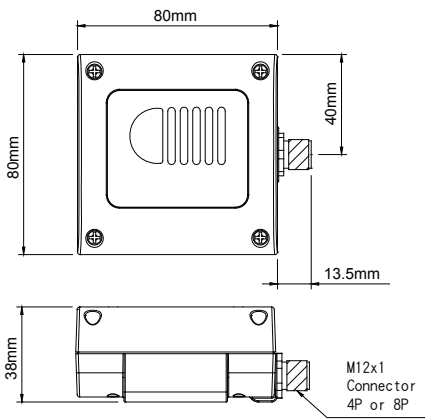
#### Applications

- HVAC control.
- Instrument testing equipment.
- Environmental control and monitoring system.
- Ventilation system control for parking lot and building.
- Green houses, fruit and vegetable storage.

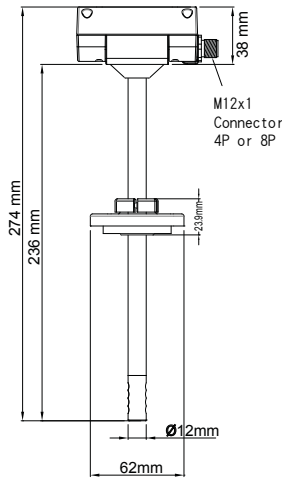


Installation	Input	Output	Power Supply	CO <sub>2</sub> Range	Option	Option
33 : Wall-mounting 34 : Duct-mounting	1 : CO <sub>2</sub>	1 : 4~20mA 2 : 0~20mA 5 : 1~5V 6 : 0~10V 7 : 0~5V 8 : 0~1V N : non	1 : 12~30VAC or 8~35VDC	2 : 2000 PPM 5 : 5000 PPM N : non(RS-485)	0 : Analogue 1 : RS-485 2 : RS-485 & Analogue	M : M12x1 connector (analog or RS-485) Q : M12x1 connector (analog + RS-485)

### DIMENSION



GS33

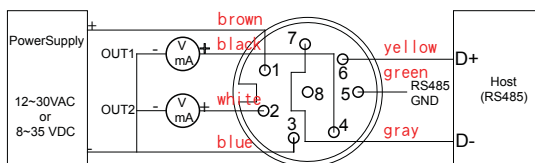


GS34

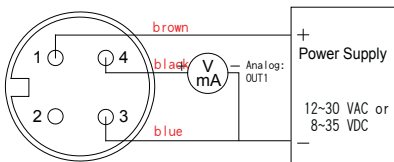
### TECHNICAL SHEET

Sensor type ..... NDIR sensor  
 Measuring range ..... 2000 / 5000PPM  
 Working range ..... 2000 / 5000PPM  
 Output ..... 0~1V;0~5V;0~10V;1~5V;0~20mA;4~20mA  
 ..... RS-485 ; RS-485 & Analogue  
 Signal connection ..... 3-wire  
 Linear accuracy ..... 0~50°C ±50 ppm ±3 % of measured value  
 Sensitivity ..... ±1ppm ±1 % of measured value  
 Load resistance ..... ≤ 500Ω for 4~20mA ≥ 10 KΩ for 0~10V  
 Output calibration (ZERO & SPAN) adjustment range .....  
 ..... factory software calibration  
 Response time(T63)....GS33: 30sec. ; GS34: <15min.diffusion time  
 Media measured ..... non-aggressive gas (HVAC system)  
 Working temperature ..... 0~50°C  
 Working humidity ..... 0~95% (non-cond.)  
 Storage temperature..... 20~70°C  
 Power supply ..... 12~30VAC /8~35VDC  
 Current consumption .....DC24V:60mA;DC12V:180mA  
 ..... AC24V:140mA;AC12V:230mA  
 Starting current ..... > 0.5A  
 Electrical connection ..... M12 connector  
 Installation ..... wall mounting / duct mounting flange  
 Protection degree ..... GS33 : IP54; GS34 : IP64  
 Electrical protection ..... ■ polarity protection ■ short circuit  
 Certification ..... CE  
 Housing ..... PC fire-proof class (PC-110)  
 Weight ..... 140g

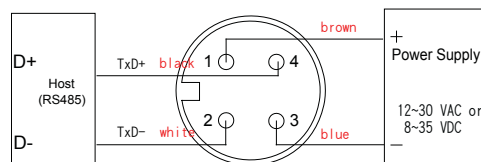
### CONNECTION DIAGRAM



Analogue + R-S485, M12, 8P



Analogue, M12, 4P



R-S485, M12, 4P