

Wall mounted gas transmitter

Model ES-GXXX Series



Main features

- Imported sensor, high precision and stability
- Unique compensation algorithm, high repeatability
- Supports simultaneous measurement of temperature and humidity plus one gas monitoring
- Wall-mounted installation, IP65 waterproof housing
- Optional high-quality OLED display
- Anti-interference modules are added to prevent electromagnetic interference

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:

EMC 2014/30/EU

Electromagnetic Compatibility

EMC 2014/35/EU

Electromagnetic Compatibility

Introduction

ES-GXXX series gas transmitters include carbon monoxide transmitters, carbon dioxide transmitters, wireless carbon dioxide transmitters, industrial wall-mounted carbon dioxide transmitters, oxygen transmitters, ozone transmitters, sulfur hexafluoride transmitters, hydrogen sulfide transmitters, ammonia transmitters, sulfur dioxide transmitters, nitrogen dioxide transmitters, TVOC transmitters, phosphine transmitters, hydrogen transmitters, methane transmitters, formaldehyde transmitters etc.

ES-GXXX series gas transmitters use imported sensors, which have the characteristics of fast response speed and strong anti-interference ability. High precision, high repeatability and high stability. The equipment adopts a waterproof shell design and wall-mounted installation. It can be equipped with a high-quality OLED display screen, and the value can be directly viewed on site. It adopts anti-interference circuit design and can withstand various strong electromagnetic interferences such as on-site frequency converters.

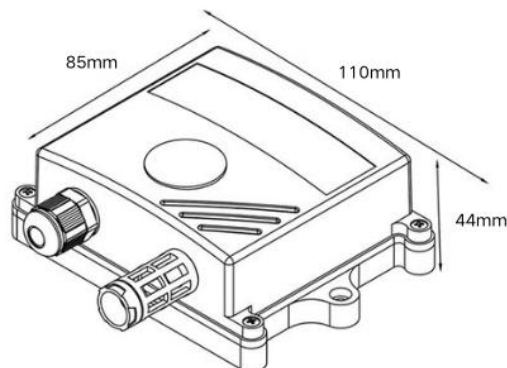
They support multiple signal outputs such as RS485 and analog (4~20mA/0~10V/0~5V).

Application

They are widely used in agricultural greenhouses, breeding farms, pesticide manufacturers, and chemical plants etc.

Dimension

Unit:mm



Specification

Power supply	10~30V DC	
Average power consumption	0.3W (24VDC) ,0.18W	
Output signal	4-20mA,0-5V,0-10V,485 output (standard Modbus protocol)	
Temperature	Range default:-40°C~+80°C; accuracy: ±0.5°C (25°C)	
Humidity	Range: 0~100%RH; accuracy: ±3%RH (60%RH,25°C)	
Repeatability	CO ₂ /NH ₃ /H ₂ /CO(1000ppm)/H ₂ S/CH ₄ /NO ₂ /SO ₂ /CH ₂ O/O ₃ /PH ₃ /TVOC/CH ₂ O:≤2% CO(2000ppm) :≤3% O ₂ :≤1%	
Stability	CO ₂ , CO(1000ppm)/H ₂ S/H ₂ /NO ₂ /SO ₂ /NH ₃ /PH ₃ /TVOC/CH ₂ O	≤2% signal value/month
	CH ₄ /CH ₂ O/O ₃	≤7% signal value/year
	CO(2000ppm)/O ₂	≤5% signal value/year
Working temperature	CO ₂ /H ₂ /CO/H ₂ S/CH ₄ /NO ₂ /SO ₂ /O ₂ /NH ₃ /PH ₃ /O ₃ /TVOC/CH ₂ O: -20~50°C	
Working humidity	CO ₂ /NH ₃ /H ₂ /CO/H ₂ S/NO ₂ /SO ₂ /O ₃ /PH ₃ /TVOC/CH ₂ O: 15~90%RH without condensation O ₂ : 5~95%RH non-condensing CH ₄ : 0~95%RH non-condensing	
Working pressure	CO ₂ /NH ₃ /H ₂ /CO(1000ppm)/H ₂ S/SO ₂ /O ₂ /PH ₃ /TVOC/CH ₂ O	90~110Kpa
	NO ₂	91~111Kpa
	CH ₄	80~116Kpa
	CO(2000ppm)	80~120Kpa
Preheat time	CO ₂ /NH ₃ /H ₂ /CO/H ₂ S/CH ₄ /NO ₂ /SO ₂ /O ₃ /O ₂ /PH ₃ /TVOC/CH ₂ O:≤2 minutes	
Installation	Wall fixed	
IP grade	IP65 default	

Order guide

ES-GXXX	series gas transmitters		
	CODE	Measuring arameters	
	TH	Temperature and humidity (Optional)	
	XX (Gas type and range)	O ₂ = 0~25VOL	H ₂ S =0~100ppm...500ppm
		CO ₂ =0~5000ppm	CO =0~1000ppm...2000ppm
		CH ₂ O=0~5ppm	NO ₂ = 0~20ppm...2000ppm
		SO ₂ =0~20ppm...2000ppm	H ₂ =0~1000ppm...4000ppm
		NH ₃ =0~50ppm...100ppm..500ppm	O ₃ =0~10ppm...100ppm
		CH ₄ =0~100 LEL	PH ₃ =0~20ppm
		TVOC=0~60000ppb	
		CODE	Output (When over 2 kind of parameters, output can only RS485)
		1	RS485 (Modbus protocol)
		2	4-20mA
		3	0-5V
		4	0-10V
ES-GXXX	TH+CO ₂	1	Order example