



All-in-One Gas Sensing Unit, Multi-Channel Gas Sensor, Advanced Multi-Gas Sensor

Overview

BS300-08 Multi-in-One Gas Sensor uses a high-precision chip for reliable data acquisition, combined with advanced manufacturing and surface-mount technology to deliver accurate and stable measurement results. It offers excellent measurement accuracy, linearity, repeatability, interoperability, and consistency, making it suitable for integration with environmental monitoring equipment and a wide range of general environmental testing applications.

The **BS300-08** supports comprehensive environmental monitoring with accurate and reliable data. Its monitoring parameters can be customized according to specific requirements, supporting up to 5–6 parameters, including air temperature, air humidity, CO₂ concentration, CO concentration, PM1.0/2.5/10, atmospheric pressure, formaldehyde, oxygen, ozone, volatile organic compounds (VOCs), and more.

Features

- ✓ High Sensitivity
- ✓ Fast Response
- ✓ Effective Resistance to Water Vapor
- ✓ Excellent Stability
- ✓ Long Service Life

Technical Specifications

Item	Specifications		
	Range	Resolution	Accuracy
Temperature	-30 °C ~ 70 °C	0.1 °C	±0.3 °C
Humidity	0 ~ 100% RH	0.1% RH	±3% RH
Illuminance	0 ~ 200K Lux	10 Lux	±5%
Dew point Temperature	-100 °C ~ 40 °C	0.1 °C	±0.3 °C
Air Pressure	300 ~ 1100 hPa	0.1 hPa	±1 hPa
CO ₂	0 ~ 5000 ppm	1 ppm	±50 ppm + 3% FS
PM1.0 / 2.5 / 10	0 ~ 1000 µg/m ³	1 µg/m ³	±10% FS
TSP	0 ~ 30 mg/m ³	1 µg/m ³	±15% FS
Noise	30 ~ 120 dB	0.1 dB	±1.5 dB

Standard Gas Sensor

Item	Specifications		
	Range	Resolution	Accuracy
CO	0 ~ 1000 ppm	1 ppm	±5% FS
SO ₂	0 ~ 20 ppm	0.01 ppm	±3% FS
O ₃	0 ~ 20 ppm	0.01 ppm	±3% FS
NO ₂	0 ~ 20 ppm	0.01 ppm	±3% FS
H ₂ S	0 ~ 100 ppm	0.01 ppm	±3% FS
NH ₃	0 ~ 100 ppm	0.01 ppm	±3% FS
TVOC	0 ~ 10 ppm	0.001 ppm	±3% FS
CH ₂ O	0 ~ 2 ppm	0.01 ppm	±3% FS
CH ₄	0 ~ 100% LEL	0.1% LEL	±5% FS
O ₂	0 ~ 30% VOL	0.1% VOL	±3% FS
NO	0 ~ 250 ppm	0.01 ppm	±3% FS
Odour	0 ~ 50 ppm	0.01 ppm	±3% FS

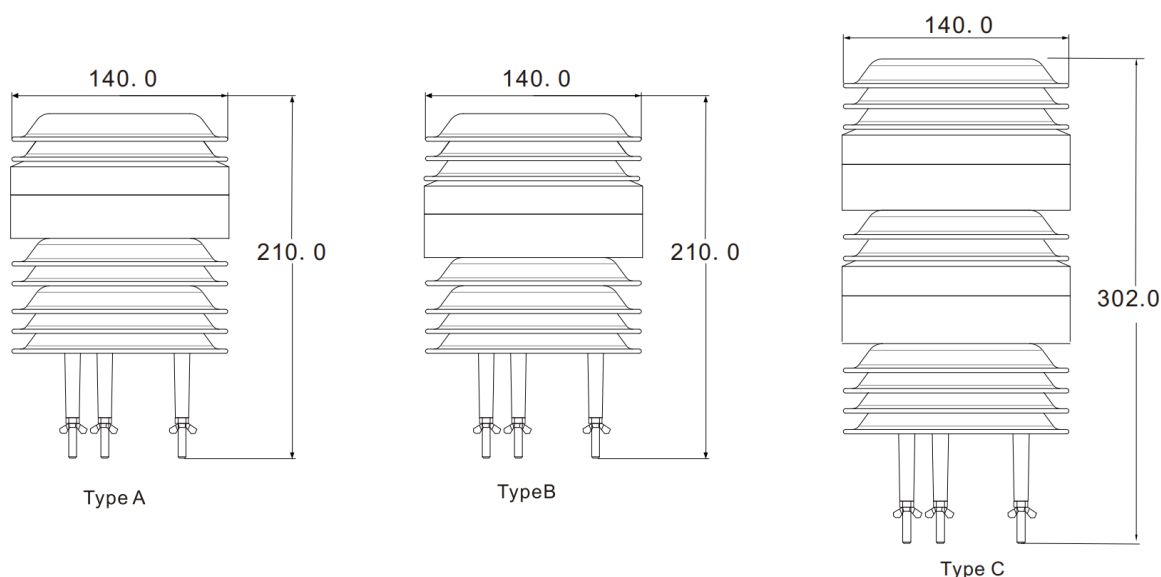
High-Precision Gas Sensor

Item	Specifications		
	Range	Resolution	Accuracy
CO	0 ~ 50 ppm	0.001 ppm	±3% FS
SO ₂	0 ~ 10 ppm	0.001 ppm	±2% FS
O ₃	0 ~ 10 ppm	0.001 ppm	±2% FS
NO ₂	0 ~ 10 ppm	0.001 ppm	±2% FS
H ₂ S	0 ~ 10 ppm	0.001 ppm	±2% FS
NH ₃	0 ~ 10 ppm	0.001 ppm	±2% FS

Item	Specifications		
	Range	Resolution	Accuracy
Supply	—	12 ~ 24 VDC	—
Output	—	RS-485	—
Warm Up Time	—	3 min	—
Response Time	—	<1s	—
Stability	—	<±1% FS	—
Repeatability	—	<±2% FS	—
Operating Temperature	—	-20 °C ~ 60 °C @ 15% ~ 80% RH	—
Storage Temperature	—	-40 °C ~ 70 °C @ 20% ~ 90% RH	—
Shell Material	—	ABS	—

Dimensions

Unit: mm



Product Selection and Configuration

Type	Addable Gas Types (Optional)			
	Configurable parameters (Optional)	Standard Gas Sensor	High-Precision Gas Sensor	Standard + High-Precision
A	T/H/P + CO ₂ + PM1.0 + PM2.5 + PM10 + Noise + Illuminance	/	/	/
B		1 ~ 4 (Optional)	1 ~ 2 (Optional)	/
C		5 ~ 8 (Optional)	3 ~ 4 (Optional)	1 ~ 4 (Standard) + 1 ~ 2 (High-Precision)

For comprehensive details, visit: www.buraq.com/BS300-08



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