



RK300-08 Multi-in-one Gas Sensor



Overview

RK300-08 Multi-in-one Gas Sensor adopts high-precision chip for data acquisition, advanced technology of manufacturing technique and surface mount, which to ensure accurate and reliable measurement data. It has outstanding characteristics in measurement accuracy, linearity, repeatability, interoperability, consistency and other aspects. It is suitable for environmental equipment matching, integration, and most of the general environmental tests. RK300-08 with complete monitoring parameters and accurate data. The parameters can be customized according to the requirements, 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, etc.

Features

High sensitivity

Fast response

Effective resistance to water vapor

Excellent stability

Long service life

Technical Parameter

Item	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	10Lux	±5%
Dew point temperature	-100°C~40°C	0.1°C	±0.3°C
Air pressure	300~1100hPa	0.1hPa	±1hPa
CO ₂	0~5000ppm	1ppm	±50ppm + 3%FS
PM1.0/2.5/10	0~1000µg/m ³	1µg/m ³	±10%FS
TSP	0~30mg/m ³	1µg/m ³	±15%FS
Standard Gas Sensor			
CO	0~1000ppm	1ppm	±5%FS
SO ₂	0~20ppm	0.01ppm	±3%FS
O ₃	0~20ppm	0.01ppm	±3%FS
NO ₂	0~20ppm	0.01ppm	±3%FS
H ₂ S	0~100ppm	0.01ppm	±3%FS
NH ₃	0~100ppm	0.01ppm	±3%FS
TVOC	0~10ppm	0.001ppm	±3%FS
CH ₂ O	0~10ppm	0.01ppm	±3%FS
CH ₄	0-100%LEL	0.1%LEL	±5%FS
O ₂	0~30%VOL	0.1%VOL	±3%FS
NO	0~250ppm	0.01ppm	±3%FS
Odour	0~50ppm	0.01ppm	±3%FS



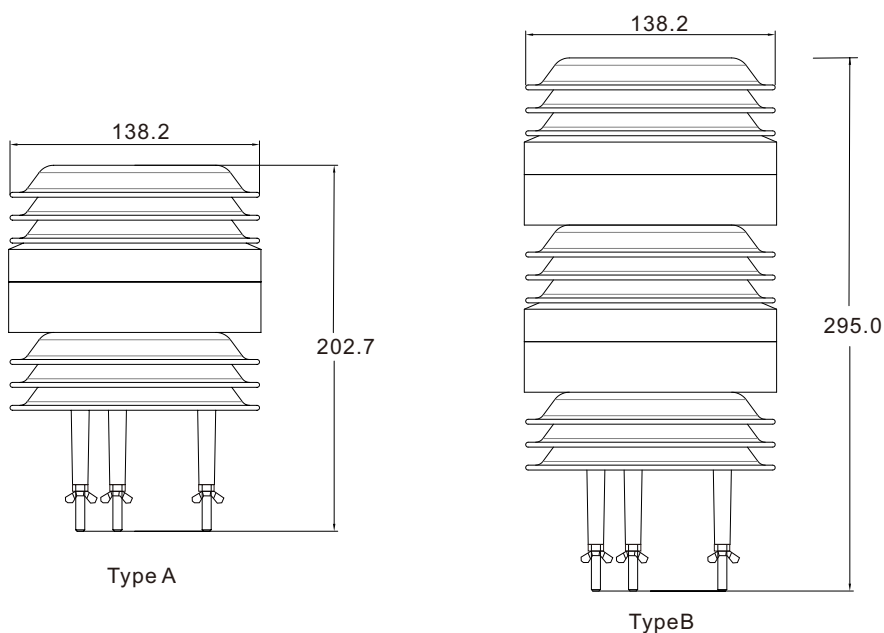
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Technical Parameter

Item	Range	Resolution	Accuracy
High-Precision Gas Sensor			
CO	0~50ppm	0.001ppm	±3%FS
SO ₂	0~10ppm	0.001ppm	±2%FS
O ₃	0~10ppm	0.001ppm	±2%FS
NO ₂	0~10ppm	0.001ppm	±2%FS
H ₂ S	0~10ppm	0.001ppm	±2%FS
NH ₃	0~10ppm	0.001ppm	±2%FS
Supply		12-24VDC	
Output		RS485	
Warm up time		3min	
Response time		<1s	
Stability		<±1%FS	
Repeatability		<±2%FS	
Operating temperature		-20°C~+60°C@15-80%RH	
Storage		-40-70°C@20%-90%RH	
Shell material		ABS	

Dimension

Unit:mm



Product Selection and Configuration

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

Revision time	Reviser	Current Version	Remarks
20250417	Lee	V5.0	