RK300-08 (Indoor) Multi-in-one Gas Sensor

Overview

RK300-08 Multi-in-one Gas Sensor uses a high-precision chip for data collection, combined with advanced manufacturing techniques and surface mount technology, to ensure accurate and reliable measurement data. This sensor performs exceptionally well in terms of measurement accuracy, linearity, repeatability, interoperability and consistency, and is suitable for the integration of environmental equipment and most general environmental detection. RK300-08 offers complete monitoring parameters and precise data, and can be customized with up to 5 to 6 parameters according to requirements, including air temperature, air humidity, CO concentration, CO_2 concentration, PM1.0/2.5/10, atmospheric pressure, formaldehyde, oxygen, ozone, volatile organic compounds, etc.

Features

High sensitivity	Excellent stability	Effective resistance to water vapor
Long service life	Fast response	

Technical Parameter

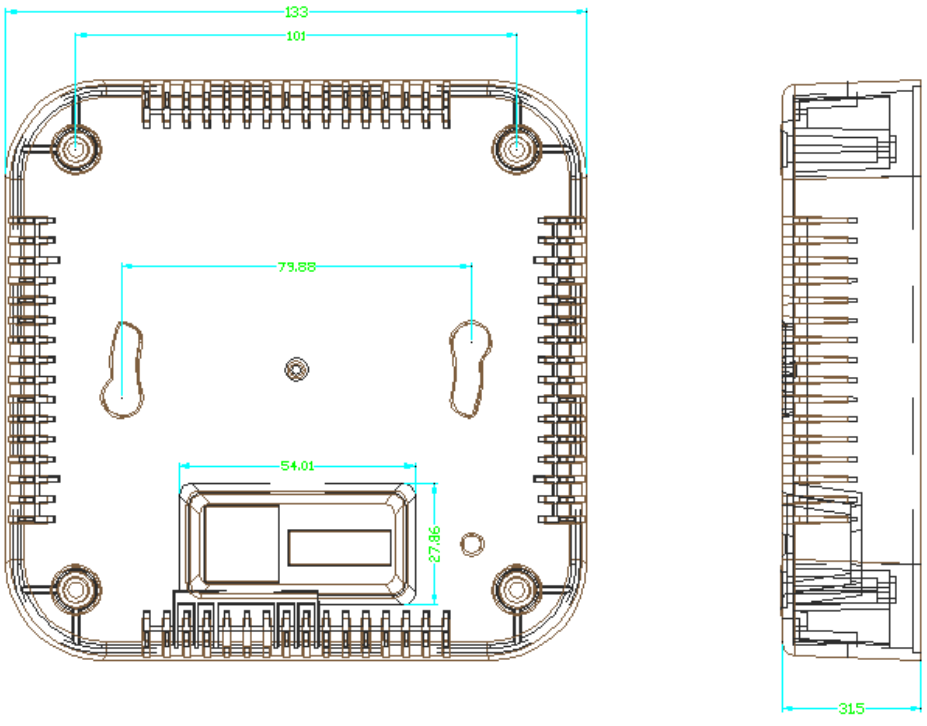
Item	Technical Specification		
	Range	Resolution	Accuracy
Temperature	-30℃~70℃	0.1℃	±0.3℃
Humidity	0~100%RH	0.1%RH	±3%RH
Illuminance	0~200K Lux	10Lux	±5%
Dew point temperature	-100℃~40℃	0.1℃	±0.3℃
Air pressure	300~1100hPa	0.1hPa	±1hPa
CO_2	0~5000ppm	1ppm	±50ppm＋3%FS
PM1.0/2.5/10	0~1000μg/m^3	1μg/m^3	±10%FS
TSP	0~30mg/m^3	1μg/m^3	±15%FS
Noise	30~12dB	0.1dB	±1.5dB
Standard Gas Ssensor			
CO	0~1000ppm	1ppm	±5%FS
SO_2	0~20ppm	0.01ppm	±3%FS
O_3	0~10ppm	0.01ppm	±3%FS
NO_2	0~20ppm	0.01ppm	±3%FS
H_2S	0~100ppm	0.01ppm	±3%FS
NH_3	0~100ppm	0.01ppm	±3%FS
TVOC	0~10ppm	0.001ppm	±3%FS
CH_2O	0~2ppm	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

Technical Parameter

Item	Technical Specification		
	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_2S	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℃-+60℃@15-80%RH		
Storage	-40-70℃@20%-90%RH		
Shell Material	ABS		

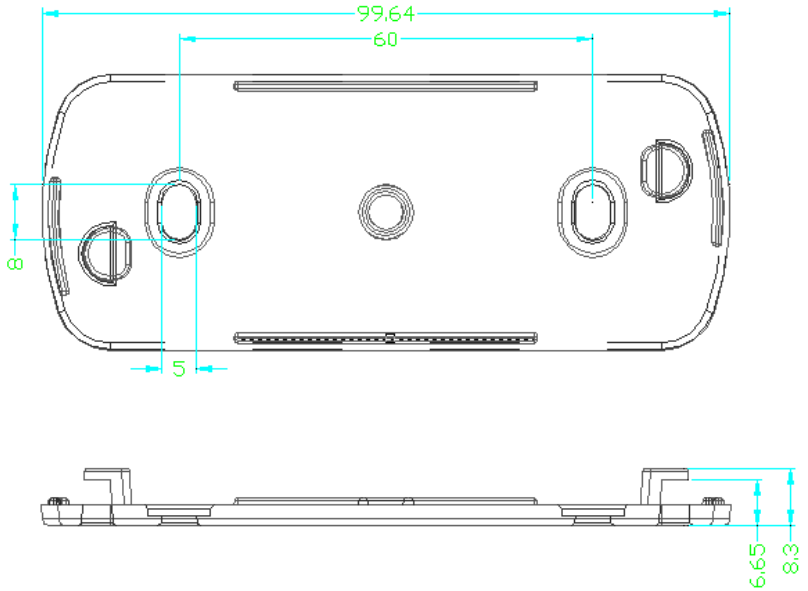
Dimension

Unit:mm



Dimension

Unit:mm



Product Selection and Configuration

Standard Gas Sensor	Optional temperature, humidity, and pressure, PM2.5, PM10,Illuminance,CO_2+1-3 gas parameters
High-Precision Gas Sensor	Optional temperature, humidity, and pressure+1-4 gas parameters

Revision time	Reviser	Current Version	Remarks
20260807	Echo	V5. 0	