CDW-1TX Multi-in-one gas Sensor
For weather automation applications

Features

- High Sensitivity
- Low temperature Drift
- Fast response time
- Light construction
- High precision, wide measuring range
- Temperature compensation
- Excellent stability
- Easy installation
- High integration, no moving parts

CDW-1TX multi-in-one gas sensor adopts high-precision chip for data acquisition,Advanced manufacturing technology and surface mounting technology ensure the quality of products The measurement data are accurate and reliable. It has outstanding characteristics in measurement Accuracy, linearity, repeatability, interoperability, consistency, etc. This is appropriate Used for matching and integration of environmental equipment, as well as most general environmental tests.CDW-1TX, complete monitoring parameters, accurate data. Parameters can be customized According to the requirements, 5-6 parameters can be set, including air temperature, air humidity, CO_2 concentration,CO concentration, PM1.0/2.5/10.0, atmospheric pressure, formaldehyde, oxygen, ozone, volatile organic compounds,Air quality, etc..

Typical installation locations

- Environmental monitoring
- Livestock farm
- Greenhouse
- Agriculture

Design structure

Multi-parameter gas sensors usually adopt a combination of electrochemical, semiconductor, infrared absorption and other detection principles. Each detection principle has its own unique advantages, and by integrating these technologies, it is possible to achieve highly sensitive, highly selective detection of different types of gases.

Easy installation

There should be sufficient space around the installation location to install and remove the sensor. Avoid choosing a narrow and crowded space to prevent difficulties caused by insufficient operation space during maintenance.It should be mounted as horizontally as possible to ensure that the sensor can accurately measure atmospheric gas. If the installation is tilted, it may cause measurement errors.

Reliable operation

Carefully designed and manufactured, it has a low failure rate and can work stably in a certain temperature, humidity and pressure range.Regular maintenance is an important measure to ensure the reliability of multi-gas sensors. This includes cleaning sensor surfaces, checking cable connections, calibrating sensors, and more.
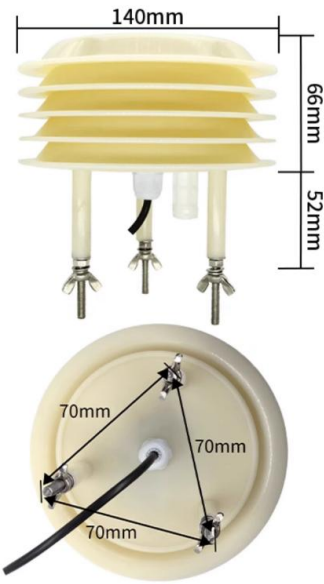
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Dimensions & installing

CDW-1TX connector dimension

150mm

12-layer screen

186mm

52mm

15-layer screen

246mm

52mm

20-layer screen

140mm

66mm

52mm

70mm

70mm

70mm

Technical data

Measurement performance, models C D W - 1 T X

Measuring Item	Technical Specification		
	Measuring range	Resolution	Accuracy
Temperature	-30-70℃	0.1℃	±0.2℃
Humidity	0-100%	0.1%	±3%
Pressure	300-1100hpa	0.1hpa	±0.5hpa
illuminance	0-200Klux	10 lux	±5%
PM2.5/10	0-1000ug/m3	1ug/m3	±5%FS
Noise	30-130dB	0.1dB	±1dB
CO2	0-5000PPM	1PPM	±3%
NH3	0-50PPM	0.01PPM	±3%F.S
H2S	0-100PPM	1PPM	±3%F.S
CO	0-1000PPM	1PPM	±3%F.S
O2	0-25%VOL	0.1%VOL	±3%F.S
O3	0-10PPM	0.01PPM	±3%F.S
NO2	0-20PPM	0.1PPM	±3%F.S
SO2	0-20PPM	0.1PPM	±3%F.S
CH2O	0-5000PPB	1PPB	±3%
TVOC	0-5000PPB	0.1PPB	±3%
H2	0-1000PPM	0.1PPM	±3%
CH4	0-100%LEL	100PPM	±10%
Output	RS485		
Power	12-24VDC		

Model number	Type	Output	Special features
CDF-10A	Wind speed	Pulses(PNP) RS485 4-20MA 0-5V	Three cup plastic wind speed
CDF-11A	Wind direction	RS485 4-20MA 0-5V	Plastic wind direction sensor
CDG-10B	Solar radiation	0-5V,4-20mA,RS485	Spectral range:300～1100nm
CDG-14A	Illuminance sensor	0-5V 0-10V 4-20mA RS485	Spectral range:380～780nm
CDY-12A	Economical Tipping Bucket Rainfall	Pulses(@10kΩ&0.01uF),RS485	Diameter :φ200mm, height: 271mm
CDW-10A	Wall-mounted Barometric Pressure	RS485,4-20mA,0-5V, 0-10V	Barometric range 600-1100hPa(mbar)
CDW-12A	CO2 sensor	4-20mA,0-5V,RS485	Range 0-2000ppm ,0-5000ppm,0-10000ppm
CDW-13B	Noise sensor	RS485	Range 30-130dB
CDW-14A	Paste Type Temperature	PT100 PT1000 RS485	Range -50-+100℃, -20-+50℃
CDW-21A	Dust sensor	RS485 4-20mA,0-5V,0-10V	PM1.0,PM2.5,PM10
CDW-22A	Leaf Wetness	4-20mA,0-5V,0-2V,RS485	Wetness: 0-100% Temperature: -40-+80℃

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