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Formaldehyde detector FD-70

Overview

Formaldehyde detectors are widely used for environmental monitoring, integrating multiple measurement elements and having powerful functions. Used for detecting various gases such as TVOC, formaldehyde (CH₂O), ozone (O₃), oxygen (O₂), hydrogen sulfide (H₂S), methane (CH₄), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), hydrogen (H₂), ammonia (NH₃), etc. in the environment, it is widely applicable to various occasions where environmental air quality needs to be measured. It is safe, reliable, easy to install, and durable.

Function Characteristics

Using high-sensitivity probes and high-quality material casing with strong anti-interference ability for more accurate measurement;
Imported electronic components;
UV resistance;
RS485 signal output;
Rain and snow protection design;
Multiple detection elements;
Lightweight material and small size

Application

Suitable for environmental monitoring, industrial pollution prevention and control, emergency response, meteorological monitoring, etc.

Technical Specifications

Model	FD-70
Product Image	
Dc Power Supply (default)	DC 10-30V
Maximum Power Consumption	1.2W
Detection Parameters	TVOC、 Formaldehyde O3、 CO、 CH4、 O2、 SO2、 NO2、 H2、 H2S、 NH3
Working Environment	Temperature -10 °C -55 °C; Humidity 0~95% RH without condensation
Signal Output	RS485 output (standard ModBus RTU protocol)
Material	ABS
Installation Method	Bracket installation

Specific Parameter Table For Each Monitored Gas:

Detection parameters	Range	Resolution	Precision	warm-up time
TVOC	0~60000ppb	1ppb	Typical accuracy: 8%FS(@C ₂ H ₆ O, 0.5ppm, 25°C, 50%RH)	
Formaldehyde	0~5ppm	0.01ppm	±5%FS (@1ppm, 25°C, 50%RH)	≥5 min
Ozone	0~10ppm	0.01ppm	±6%FS (@5ppm, 25°C, 50%RH)	≥5 min
O ₂	0~25%VOL	0.1%VOL	±2%FS	≥5min
H ₂ S	0~100ppm	1ppm	±2ppmor±10%	≥5min
CH ₄	0~100%LEL	1%LEL	±5%FS	≥5min
CO	0~1000ppm	1ppm	±5ppmor±10%	≥5 min
NO ₂	0~20ppm	0.1ppm	±5%FS	≥5min
SO ₂	0~20ppm	0.1ppm	±5%FS	≥5min
H ₂	0~1000ppm	1ppm	±5%FS	≥5min
NH ₃	0~100ppm	1ppm	±8%	≥5min

All the above specification parameters, except for those that have been specifically stated, are measured under environmental conditions: temperature of 20 °C, relative humidity of 50% RH, 1 atmosphere pressure, and the maximum concentration of the gas to be measured does not exceed the sensor range.

Instrument Size And Installation



Installation Pallet Size Diagram (unit: Mm)

Product Functional Features



Anti UV interference

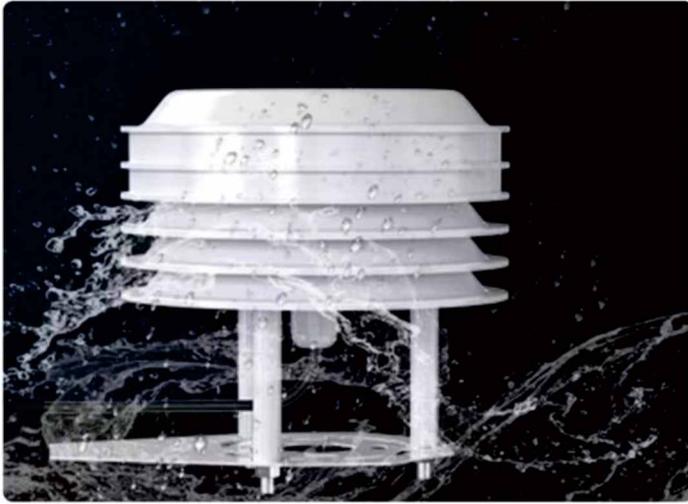
Using high-quality UV resistant materials to effectively block UV radiation and prevent rapid aging of equipment, with a long service life

Lightweight material and small size

Lightweight hundred leaf box, radiation proof cover in accordance with WMO standards, standard 6-layer height adjustable according to user needs, waterproof PG7 locking and tensile pulling



Product Functional Features

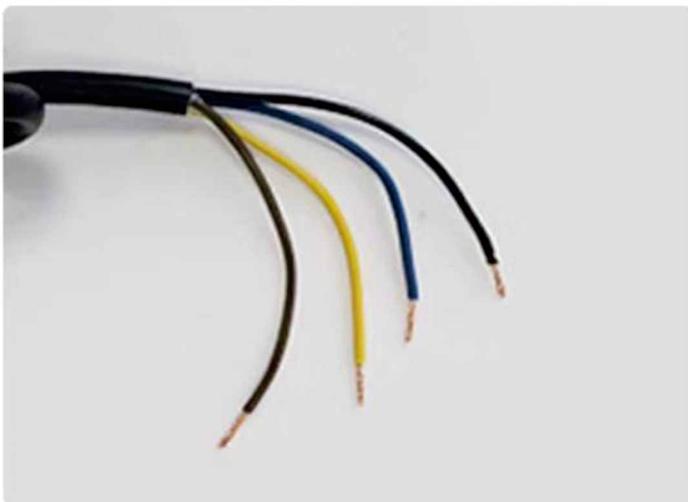
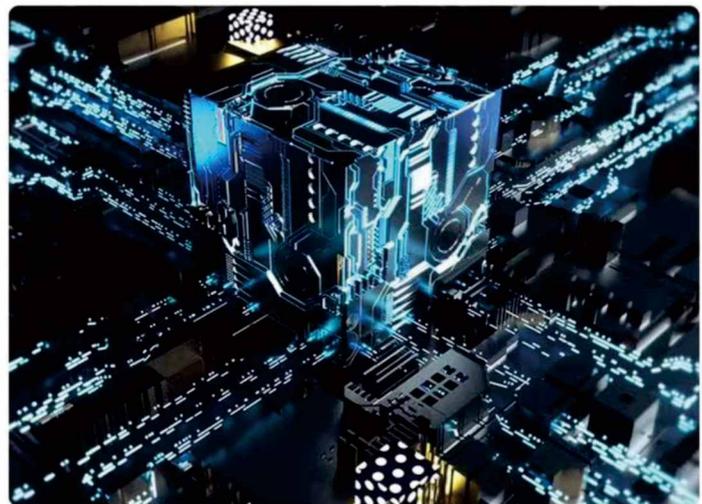


Rain and snow resistant exterior design

The high-density waterproof shell is enclosed with waterproof adhesive tape to protect the circuit board, and the moisture-proof effect is significant

Wide voltage power supply

The power supply circuit with a wide voltage range of 10-30V is stable, safe and reliable



High quality four core wire

High data transmission efficiency ensures stable operation of equipment

Product Functional Features

The input range of a wide voltage power supply is 10~30V. When wiring the 485 signal line, be careful not to connect wires A and B in reverse, and ensure that the addresses of multiple devices on the bus do not conflict.

brown line : Power supply positive (DC10-30V)

Yellow line : 485-A

black line : Negative power supply

blue line : 485-B



FD-70 Selection Composition

Example Of Selection **FD-70**

1	A	2	R	3	B	4	EF	5	C	6	Q
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1. Detect Gas Type	A	formaldehyde
2. Measurement Range	R	0~5ppm
	T()	其它量程
3. Output Signal	B	RS485
4. Optional detection gas (optional two types) Non mandatory option	E	O ₂ (range 0~25% VOL)
	F	H ₂ S range 0~100 ppm
	G	CH ₄ range 0~100 LEL
	H	CO range 0~1000 ppm
	J	NO ₂ range 0~20ppm
	K	SO ₂ range 0~20ppm
	L	H ₂ range 0~1000ppm
M	NH ₃ range 0~100ppm	
5. Power Supply	C	DC 10-30V
6. Shell Material	Q	ABS

Explanation:

FD-70 formaldehyde detector, with a range of 0~5ppm, output signal RS485, optional detection O (range of 0~25% VOL) and H S range of 0~100 ppm, DC 10-30V power supply, ABS shell.

Product Certification

Compliance and approval; The Ludwig water quality analyzer meets key standards and certifications for process measurement technology; To ensure the highest reliability in such settings;