

### OC-F08 Fixed gas detector



#### Description:

OC-F08 series fixed gas detector used the original imported sensor and the ultra low power 32 bit microprocessor, so with the advantages of high precision, good repeatability, stable signal, respond quickly, etc. Possible connected with many controller system, such as PLC, DCS, computer and other, with the function of remote monitor and alarm, data logger and analysis.

Common applications is gas safety inspection and alarm for industrial scene, such as petroleum refinery, chemical plants, LPG stations, boiler rooms, gas stations, paint spray booths, metallurgy, mining, fire, environmental protection, etc.

#### Features:

4-20mA standard analog signal and RS485 digital signal output, 200~1000HZ signal output, relay output, data restore, data logger(optional);

LED screen displaying the gas concentration, gas type, unit, instrument status etc.

Independent air chamber, the sensor is not required to replace the sensor calibration, automatic identification of key parameters of the sensor;

Protection function to prevent high gas concentration attack;

Display the gas concentration in ppm, %LEL, %vol and mg/m<sup>3</sup> is selectable;

Infrared remote controller operation;

With the 16bit ADC acquisition chip, designed with four-layer circuit board, so with high anti-interference ability;

With the Ex-proof certificate, the Ex-proof grade is Exd II CT6.

#### Technical Parameter:

Applicable Gas	Oxygen, Combustible gas, toxic gas, etc
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Oceanus Gas detection system

Detecting Range	According to the detected gas
Resolution	According to the detected gas
Sampling	Diffusion or pump-suction, circulation selectable
Accuracy	≤±3%F.S
Repeatability	≤±1%
Zero drift	≤±1%(F.S/year)
Sensor Type	Catalytic combustion , Electrochemical, PID, Infrared sensor
Sensor Life	2~3 years(Catalytic combustion, Electrochemical, Semiconductor) 3~5 years(PID, Infrared)
Response Time (T90)	≤20s
Alarming mode	Audible-visual alarm (Optional)
Operating Environment	Temperature: -30℃~60℃ (Customized for special demands) Humidity: ≤95%RH (non-condensing); if >90%RH, can add the filter Pressure: 86kPa~106kPa
Working Voltage	24V DC(16~30VDC)
Output Signals	(Standard)Three-wire system 4~20mA standard signals output, available for PLC, DCS, etc; (Optional) Four-wire system RS485 digital signal output; (Optional) Frequency signal 200~1000Hz output; Two-level relay output:220VAC 0.5A, 5VDC 0.5A
Installation Model	Wall mounted, Pipe type (Thread:M40*1.5 )
Material of Body	Cast aluminum
Explosion-proof Index	Ex d IIC T6
Protection Grade	IP66
Electrical Interface	3/4"NPT(Female Screw)、1/2"NPT(Female Screw)
Transmit Distance	≤2000m (If more than 2000m, can add the repeater.)
Dimension	210 mm×140 mm×92 mm (L×W×H)
Weight	About 1.5Kg
Standards	GB15322.1-2003 , GB3836.1-2010 , GB3836.2-2010 , GB3836.4-2010
Warranty	12months

**Target gas list:**

Gas	Detecting Range	Alarm Threshold	Sensor Type
NH <sub>3</sub>	0-100 PPM	25 PPM / 50 PPM	Electrochemical sensor
Cl <sub>2</sub>	0-50.0 PPM	10 PPM / 20 PPM	
H <sub>2</sub>	0-1000 PPM	50 PPM / 100 PPM	
CH <sub>2</sub> O	0-100 PPM	25 PPM / 50 PPM	
O <sub>2</sub>	0-30.0%vol	18.5%vol / 23.5%vol	
H <sub>2</sub> S	0-100 PPM	10 PPM / 20 PPM	

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HCl	0-30.0 PPM	5.0 PPM / 10.0 PPM	
HCN	0-50.0 PPM	5.0 PPM / 10.0 PPM	
PH <sub>3</sub>	0-20.0 PPM	0.3 PPM / 0.6 PPM	
HF	0-10.0 PPM	3.0 PPM / 6.0 PPM	
NO	0-250 PPM	25 PPM / 50 PPM	
CO	0-500 PPM	35 PPM / 70 PPM	
SO <sub>2</sub>	0-20.0 PPM	2.0 PPM / 10.0 PPM	
ClO <sub>2</sub>	0-50.0 PPM	0.3 PPM / 0.5 PPM	
NO <sub>2</sub>	0-20.0 PPM	1.0 PPM / 2.0 PPM	
C <sub>2</sub> H <sub>4</sub> O	0-100 PPM	10 PPM / 20 PPM	
O <sub>3</sub>	0-20.0 PPM	5.0 PPM / 10.0 PPM	
CH <sub>4</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>3</sub> H <sub>8</sub>	0-100%LEL	25%LEL / 50%LEL	
H <sub>2</sub>	0-100%LEL	25%LEL / 50%LEL	
NH <sub>3</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>2</sub> H <sub>4</sub> O	0-100%LEL	25%LEL / 50%LEL	
CH <sub>3</sub> CH <sub>3</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>2</sub> H <sub>4</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>4</sub> H <sub>10</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>4</sub> H <sub>8</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>7</sub> H <sub>8</sub>	0-100%LEL	25%LEL / 50%LEL	
C <sub>8</sub> H <sub>10</sub>	0-100%LEL	25%LEL / 50%LEL	
CH <sub>4</sub> O	0-100%LEL	25%LEL / 50%LEL	
C <sub>2</sub> H <sub>6</sub> O	0-100%LEL	25%LEL / 50%LEL	
C <sub>3</sub> H <sub>4</sub> O	0-100%LEL	25%LEL / 50%LEL	
C <sub>2</sub> H <sub>3</sub> Cl	0-100%LEL	25%LEL / 50%LEL	
C <sub>3</sub> H <sub>9</sub> N	0-100%LEL	25%LEL / 50%LEL	
CH <sub>3</sub> Br	0-100%LEL	25%LEL / 50%LEL	
CO <sub>2</sub>	0-5.0%vol	1.0%vol / 3.0%vol	NDIR infrared sensor
	0-5000ppm	800 PPM / 1500 PPM	
CH <sub>4</sub>	0-5.0%vol	1.0%vol / 3.0%vol	
	0-100%vol	5%vol / 10%vol	

**Ada Bu**

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