

# Fixed Gas Detector



**SIL II**

## GT-WD2200 Series Fixed Gas Detector

GT-WD2200 is a fixed gas detector installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas. It shows not only the concentration of gas but also diagnostic result of the unit itself through the LCD screen and can be connected to the control panel with a standard 4-20mA analog output or RS485 digital communication.

## FEATURES

- Smart sensor module design, easy for replacement
- Built-in buzzer and flasher
- GT-WD2200 measures the concentration of the flammable gas, toxic gas, oxygen and VOCs
- Explosion proof structure.
- Water and dust proof design
- LCD screen display
- IR remote control for setting and calibration.

## APPLICATION

Steelworks, Petrochemical plants, Shipyards, Water treatment plants, Mines, Power plants, Food industry etc.

## MODELS & MAIN FEATURES

GT-WD1210/2210 (RS485)	GT-WD1200/2200 ( 4 ~ 20mA )	<table><tr><th>Function Model</th><th>4~20mA</th><th>RS485</th><th>Buzzer</th><th>Indicating lamp</th><th>Relay output</th><th>LCD display</th></tr><tr><td>GT-WD1200</td><td>●</td><td></td><td>●</td><td>●</td><td>● remark 1</td><td></td></tr><tr><td>GT-WD1210</td><td></td><td>●</td><td>●</td><td>●</td><td>● remark 2</td><td></td></tr><tr><td>GT-WD2200</td><td>●</td><td></td><td>●</td><td>●</td><td>● remark 1</td><td>●</td></tr><tr><td>GT-WD2210</td><td></td><td>●</td><td>●</td><td>●</td><td>● remark 2</td><td>●</td></tr></table>							Function Model	4~20mA	RS485	Buzzer	Indicating lamp	Relay output	LCD display	GT-WD1200	●		●	●	● remark 1		GT-WD1210		●	●	●	● remark 2		GT-WD2200	●		●	●	● remark 1	●	GT-WD2210		●	●	●	● remark 2	●
Function Model	4~20mA	RS485	Buzzer	Indicating lamp	Relay output	LCD display																																					
GT-WD1200	●		●	●	● remark 1																																						
GT-WD1210		●	●	●	● remark 2																																						
GT-WD2200	●		●	●	● remark 1	●																																					
GT-WD2210		●	●	●	● remark 2	●																																					

Remark 1: 2 switching passive contact signal output, relay spec, 24V@3A.

Remark 2: 1 switching passive contact signal output, relay spec. 24V@3A.

Remark 3: refer to calibration part for operation details.

Remark 4: suggest not use this function since this model does not contain LCD display as interface, using RS485 bus for calibration and adjustment is highly recommended.

Remark 5: refer to calibration part for operation details.

## SPECIFICATIONS

Measuring gas	Combustible	Catalytic sensor / NDIR sensor	Response time	Catalytic sensor: T90≤30s Electrochemical: T90≤60s NDIR sensor: T90≤10s PID sensor: T90≤10s
	Toxic gas & O2	Electrochemical sensor		
	CO2 gas	NDIR sensor		
	VOCs	PID sensor		
Measuring range	Refer to our gas list		Mounting type	Wall mounted
Measuring accuracy	±5%F.S.		Working temperature	Toxic gas: -20°C ~ +50°C Combustible: -40°C ~ +70°C
Sensor life	Catalytic sensor: 3 years Electrochemical: 2 years (1 year for O2 sensor) NDIR sensor: 5 years PID sensor: 0.6 to 1 year		Working humidity	≤95%RH (no condensation)
Measuring type	Diffuse naturally		Operation voltage	DC24V±25%
Signal output	4-20mA / RS485		Consumption	<2W
Alarm output signal	4-20mA type (GT-WD2200): 2 programmable relays RS485 type (GT-WD2210): 1 programmable relay		Ingress Protection	IP65
Cable / distance	4-20mA type: 1.5 MM <sup>2</sup> , 3 wire, shielded, 1000m (maximum) RS485 type: 1.5 MM <sup>2</sup> , 4 wire, shielded, 1000m (maximum)		Housing material	Chamber: Aluminum alloy Sensor cover: Stainless steel
			Conduit connection	G3/4"
			Explosive proof	Ex d IIC T6
			Dimension and weight	174*220*105mm, about 2kg

**Welcome to Hanwei !**



**汉威科技集团股份有限公司**  
**Hanwei Electronics Group Corporation**

ADD: No.169 Xuesong Road, National & High Tech Zone,  
 Zhengzhou 450001, Henan, China P.C: 450001

**HAUSNET S.R.L.**

Tel Argentina: (+54-11) 5219-2211

Tel Chile: (+56-2) 2897-3999

E-Mail: [hausnet@hausnet.com.ar](mailto:hausnet@hausnet.com.ar)

Web: [www.hausnet.com.ar](http://www.hausnet.com.ar)