

# FGD - 3030

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## FIXED GAS DETECTOR



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

The FGD-3030 is an Infra red Sensor Technology based type gas detector with smart transmitter. The sensor is integrated to the transmitter having digital LCD-LED display. This detector uses high-performance infrared components and micro-control technology, combined with sophisticated SMD process manufacturing. It has good repeatability, temperature and humidity characteristics, as well as long service life and convenient operation.

The output signal of the detector is 4~20mA standard signal with optional HART

Besides Infrared Sensor the FGD-3030 is also available with Plug in SMART Sensors for Point Infrared, Oxygen and Catalytic Combustion. These sensors are replaceable type and can be replaced without any special tools.

## ►► Features & Benefits

### **Infra-Red Sensor**

Double beam infrared technology, dual compensated, Non-Dispersive IR (NDIR) with temperature compensation for excellent stability and minimal drift.

### **Output Choice**

4-20mA

RS-485

HART over 4-20mA (Optional)

### **Digital Display**

LED-LCD Display

No Backlight Required

Can be seen from Wide Distance

### **Optics**

Dirty Optics warning with correct Operation upto 70-80% for NDIR Sensor.

Easy Cleaning of Mirror or Sensor Replacement

### **Other Features**

Relay outputs for Alarm and Faults

Non-Intrusive Calibration

Intrinsically Safe HART Port (Optional)

Smart Sensor modules for Point IR

Toxics and VOC'S

**►► Specification :**

Dimensions	210mm x 200mm x 105mm
Weight	< 2 Kg
Enclosure Material	Cast Aluminium Alloy or SS-316
Sensor Housing Material	SS-316
Ingress Protection	IP-66
Cable Entry	Two 3/4" NPT
Power	18-30VDC < 2W
Electrical Output	4-20mA Current Sink or SourceRS-485 MODBUS RTU HART over 4-20mA Signal
Display	Main Display: LED-LCD (Red) Indicators: Alarm 1, Alarm 2, Fault
Relays	2 Configurable Relays5A@230VAC 5A@30VDC
Intrinsically Safe HART Port	Optional
Sampling Method	Natural Difusion with Chimney Effect
Working Temperature	-40°C to +70°C
Working Humidity	0~95% RH (no dews)
Accuracy	± 1% for 0-100% range (NDIR) ± 2% to ± 3% for 0-100% range (TOXICS)
Repeteability	± 2% FSD
Warm-up Time	NDIR/Catalytic - 120 seconds Toxics - 60 seconds
Zero Drift	± 2% FSD per year maximum
Approvals	ATEX - Ex dB IIC T6 Cb PESO
Testing	EN 60079-0: 2012 EN 60079-1: 2014 SIL2

## ►► Sensor Ranges :

TARGET GAS	RANGE	RESOLUTION	SENSOR TYPE	RESPONSE TIME
	0~100% LEL	1% LEL		
CH <sub>4</sub>	0~5% VOL	0.01% VOL	Catalytic Combustion	T <sub>90</sub> <30 Sec (Cat)
	0~100% VOL	1% VOL	Non-Dispersive IR	T <sub>90</sub> <30 Sec (NDIR)
C <sub>3</sub> H <sub>8</sub>	0~100% LEL	1% LEL		
H <sub>2</sub>	0~100% LEL	1% LEL	Catalytic Combustion	T <sub>90</sub> <15 Sec
	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
CO <sub>2</sub>	0~5% VOL	0.01% VOL	Non-Dispersive IR	T <sub>90</sub> <3 Sec
	0~6000 ppm	1 ppm	Non-Dispersive IR	T <sub>90</sub> <3 Sec
C <sub>4</sub> H <sub>10</sub>	0~100% LEL	1% LEL	Non-Dispersive IR/ Catalytic Combustion	T <sub>90</sub> <3 Sec (Cat)T <sub>90</sub> <3 sec(NDIR)
CO	0~1000 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
	0~500 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
H <sub>2</sub> S	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
	0~30 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
O <sub>2</sub>	0~30 VOL	0.1% VOL	Electro chemical	T <sub>90</sub> <10 Sec
NH <sub>3</sub>	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
	0~1000 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
SO <sub>2</sub>	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
Cl <sub>2</sub>	0~20 ppm	0.1ppm	Electro chemical	T <sub>90</sub> <10 Sec
VOC	0~1000 ppm	1ppm	PID	T <sub>90</sub> <10 Sec
NO <sub>2</sub>	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
ETO	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec
HCN	0~100 ppm	1ppm	Electro chemical	T <sub>90</sub> <10 Sec

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Water purification  
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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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