

## PGas-21 Portable Single Gas Detector

CE



### Brief Introduction

PGas-21 portable single gas detector is used to detect the concentration of flammable gases, oxygen gas and many kinds of toxic & harmful gases. It will alarm immediately once the detected gas concentration reaches or exceeds the preset alarm point. Users can set the low and high alarm point according to the practical need.

It is widely used in such industries such as petroleum, chemical, natural gas, fire fighting, municipal administration, pharmacy, steel manufacture, gas storage station, special plants and other places where toxic and harmful gases exist. This model product has been awarded with National Safety Certification for Explosion-proof Products and CE Certification.

### Main Features

- ◆ Single gas detection, sound/light/vibration alarms
- ◆ Segment encoding LCD display
- ◆ Backlight setting is available
- ◆ Self-test during starting up
- ◆ Setting upper/lower alarm points, STEL and TWA is also inclusive for toxic gases
- ◆ Adjustable calibration concentration, facilitating users for calibration
- ◆ Modifiable user passwords, providing users with operation protection
- ◆ Large-capacity lithium battery with very long standby time
- ◆ Real-time clock setting function
- ◆ Setting of the silencer
- ◆ Alarm sounds at different frequencies under different alarm conditions
- ◆ Manual cancellation of vibration alarms
- ◆ Automatic battery detection and undervoltage indication

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**Technical Parameters**

Parameters	Characteristics
Detected Gas	flammable gases, oxygen gas and many kinds of toxic & harmful gases.(Please refer to the Lectotype table)
Sampling Method	Diffusion
Measurement Principle	Electrochemical (oxygen and toxic gases) Catalytic combustion (flammable gases) Infrared principle (carbon dioxide gas)
Response Time	(CO <sub>2</sub> <10s)、(O <sub>2</sub> 、flammable gases<20s)、(CO、H <sub>2</sub> S、SO <sub>2</sub> 、CL <sub>2</sub> 、NO、CLO <sub>2</sub> 、NO <sub>2</sub> 、H <sub>2</sub> <30s)、(HCN、NH <sub>3</sub> 、PH <sub>3</sub> <100s)
Detection Error	±5%F.S
Operation Mode	Touch push-keys
Display Mode	LCD display
Working Temperature	-20℃~55℃
Environment Humidity	0~95%RH(non condensation)
Storage Temperature	0℃~40℃
Power Supply	Rechargeable lithium battery, continuously work for over 24 hours.
Battery	4.2V lithium battery ,1700mA/h
Dimension	125×66×42 mm
Weight	105g
Certification of Explosion Protection	ExiaII CT3
Calibration Mode	Optional calibrating cap to facilitate calibration by users.

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**Lectotype table**

Model	Range	Low alarm setting range	High alarm setting range	Low alarm point	High alarm point
PGas-21-FL	0~100%LEL	10%LEL~25%LEL	25%LEL~80%LEL	20%LEL	50%LEL
PGas-21-H <sub>2</sub>	0~1000ppm	100ppm~300ppm	400ppm~600ppm	100ppm	500ppm
PGas-21-O <sub>2</sub>	0~30% vol	16% vol~19.5% vol	22.5% vol~24% vol	19.5% vol	23.5% vol
PGas-21-CO-1	0~500ppm	25ppm~100ppm	100ppm~500ppm	35ppm	200ppm
PGas-21-CO-2	0~1000ppm	25ppm~100ppm	100ppm~500ppm	35ppm	200ppm
PGas-21-CO <sub>2</sub> -1	0~5% vol	1000~2500ppm	2500~5000ppm	1500ppm	2500ppm
PGas-21-CO <sub>2</sub> -2	0~20% vol	4%~8%	8%~16%	5%	10%
PGas-21-CO <sub>2</sub> -3	0~65% vol	13%~26%	26%~52%	15%	30%
PGas-21-CO <sub>2</sub> -4	0~100% vol	20%~40%	40~80%	30%	50%
PGas-21-H <sub>2</sub> S	0~100ppm	5ppm~15ppm	15ppm~30ppm	10ppm	15ppm
PGas-21-SO <sub>2</sub>	0~20ppm	1ppm~3ppm	3ppm~10ppm	2ppm	5ppm
PGas-21-CL <sub>2</sub>	0~10ppm	0.5ppm~3.5ppm	4ppm~6ppm	0.5ppm	5ppm
PGas-21-NH <sub>3</sub>	0~100ppm	20ppm~30ppm	30ppm~70ppm	25ppm	50ppm
PGas-21-NO	0~250ppm	20ppm~50ppm	50ppm~100ppm	25ppm	50ppm
PGas-21-NO <sub>2</sub>	0~100ppm	1ppm~2ppm	2ppm~5ppm	1ppm	5ppm
PGas-21-HCN	0~30ppm	5ppm~10ppm	10ppm~15ppm	5ppm	10ppm
PGas-21-PH <sub>3</sub>	0~1ppm	0.3ppm~0.5ppm	0.5ppm~0.8ppm	0.3ppm	0.6ppm

**Executed Standards**

GB12358-2006: *General Technical Requirements for Gas Detector in Workplace Environments*

GB3836.1-2000: *Electrical apparatus for explosive gas atmospheres Part 1 General Requirements*

GB3836.4-2000: *Electrical apparatus for explosive gas atmospheres Part 4 intrinsic safety "i"*

**Explosion-proof Mark:** ExiaIICT3, it applies to 0 Zone,1 zone,2 zone,the place that contains IIA~IIC category and T1~T3 group of explosive gas mixture ,and is qualified to get explosion-proof conformity certificate through inspection by CQST.

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