

# Portable Single Gas Detector

## LPSG-A10



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Portable Single Gas Detector LPSG-A10 is a compact, lightweight detector. Detects the concentration of flammable gases, oxygen gas, and different types of toxic and harmful gases. It features large capacity lithium battery with long standby time, adjustable calibration concentration, and manual cancellation mode of vibration alarms.

### Features

- Single gas detection unit
- Display real time detection values
- Segment encoding LCD display
- Setting for Upper and Lower alarm limit as per requirement
- Adjustable backlight brightness to save power
- Alarm beeps at different frequencies under different alarm conditions
- Adjustable calibration concentration, facilitates user for calibration
- Automatic battery detection (under voltage indication)
- User can modify password to maintain privacy of test operations

### Applications

Used in petroleum, chemical, fuel processing industry, metal manufacturing plants, drug production plants.

### Specifications

Model no.	LPSG-A10
Sampling method	Diffusion
Measurement principle	Electrochemical (oxygen, toxic gases), Catalytic combustion (flammable gases), Infrared principle (carbon dioxide gas)
Detector gas	Flammable gases, oxygen gas, toxic and harmful gases
Response time	CO <sub>2</sub> < 10 s
	O <sub>2</sub> , flammable gases < 20 s
	CO, H <sub>2</sub> S, SO <sub>2</sub> , NO, ClO <sub>2</sub> , NO <sub>2</sub> , H <sub>2</sub> < 30 s
	HCN, NH <sub>3</sub> , PH <sub>3</sub> < 100 s
Detection error	± 5 % F.S.

Explosion grade	Exia II CT3
Operation mode	Touch push keys
Display	LCD display
Working temperature	-20 to 55°C
Environment humidity	0 to 95 % RH (non-condensation)
Storage temperature	0 to 40°C
Battery	4.2 V lithium battery, 1700 mA/h
Power supply	Rechargeable lithium battery, continuous working up to 24 hours
Dimension	125 × 66 × 42 mm
Weight	105 g
HS Code	9027100090

### Optional accessories

Accessories No.	Name
01	Calibration cup

### Gas Selection Criteria

Gas Detector type	Range	Low alarm setting range	High alarm setting range	Low alarm point	High alarm point
LPSG-A10-FI	0-100% LEL	10-25 % LEL	25-80 % LEL	20 % LEL	50 % LEL
LPSG-A10-H2	0-1000 ppm	100-300 ppm	400-600 ppm	100 ppm	500 ppm
LPSG-A10-O2	0-25 % vol	16-19.5 % vol	22.5-24 % vol	19.5 % vol	23.5 % vol
LPSG-A10-CO-1	0-500 ppm	25-100 ppm	100-500 ppm	35 ppm	200 ppm
LPSG-A10-CO-2	0-1000 ppm	25-100 ppm	100-500 ppm	35 ppm	200 ppm
LPSG-A10-CO2	0-5 % vol	1000-2500 ppm	5200-5000 ppm	1500 ppm	2500 ppm
LPSG-A10-H2S	0-100 ppm	5-15 ppm	15-30 ppm	10 ppm	15 ppm
LPSG-A10-SO2	0-20 ppm	1-3 ppm	3-10 ppm	2 ppm	5 ppm