

MSG-900 Portable Single Gas Detector (Series)



Overview:

MSG-900 portable single gas detector is used to detect the concentration of different 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.

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

Features:

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

Sensor Part No.	Gas	Range	Low alarm setting range	High alarm setting range	Low alarm point	High alarm point
01	Flammables	0~ 100 LEL	10%~ 25%	25%~80%	20% LEL	50% LEL
02	H ₂	0~1000ppm	100~300	400~600	100ppm	500ppm
03	O ₂	0~30%vol	16%~19.5%	22.5%~24%	19.5%	23.5%
04	CO	0~1000ppm	25~100	100~500	35ppm	200ppm
05	CO ₂	0~5%vol	1000~2500ppm	2500~5000ppm	1500ppm	2500ppm
06	H ₂ S	0~100ppm	5~15 ppm	15~30 ppm	10ppm	15ppm
07	SO ₂	0~20ppm	1~3 ppm	3~10 ppm	2ppm	5ppm
08	CL ₂	0~10ppm	0.5~3.5 ppm	4~6 ppm	0.5ppm	5ppm
09	NH ₃	0~100ppm	20~30 ppm	30~70 ppm	25ppm	50ppm

For ordering, mention the sensor part No. after the models number

Example: MSG-900-05 (single detector for CO₂)

Parameter	Values
Sampling Method	Diffusion
Measurement Principle	Electrochemical (oxygen and toxic gases), Catalytic combustion (flammable gases), Infrared (Carbon dioxide)
Response Time	(O ₂ & flammables <20s), (CO ₂ < 10s), (NH ₃ <100s), (CO, FL, H ₂ S, SO ₂ , CL ₂ , H ₂ <30s)
Detection Error	±5%F.S
Operation Mode	Touch push-keys
Display Mode	LCD display
Working Temperature	-20°C ~ 55°C
Environment Humidity	0~95%RH(non condensation)
Storage Temperature	0°C ~ 40°C
Power Supply	Rechargeable lithium battery, continuously work for over 24hours
Battery	4.2V lithium battery ,1700mA/h
Dimensions	125×66×42 mm
Weight	105g
Certification of Explosion Protection	Exiall CT3 ^[1]
Executed standards	GB12358-2006 ^[2] , GB3836.1-2000 ^[3] , GB3836.4-2000 ^[4]
Calibration Mode	Optional calibrating cap to facilitate calibration by users.

[1] 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.

[2] General technical requirements for gas detector in workplace environments.

[3] Electrical apparatus for explosive gas atmospheres part 1 general requirements.

[4] Electrical apparatus for explosive gas atmospheres part 4 intrinsic safety "I".



Package includes:

- Main unit
- AC adapter
- User's manual
- Calibration Certificate
- Carrying case

