



MY101

Portable single gas detector

MY101 portable gas detector adopts explosion-proof design, uses imported high-performance sensors, and combines multi-point temperature compensation algorithm. It has high sensitivity, strong anti-interference ability, and stable and reliable performance.

This detector can be widely used in metallurgy, petroleum, chemical industry, mining, coking, municipal administration, environmental protection, pharmaceuticals, electricity, shipping, sewage treatment and other places where toxic and harmful gases need to be monitored.

Features and benefits

32-bit core processor based on ARM architecture

Support Bluetooth function (optional)

The battery life can reach more than 2 years (calculated based on 8 hours of normal work per day)

Multi-point temperature compensation algorithm

Full-function self-check at startup: sensor, battery level, vibration, sound and light alarm

Sound alarm, vibration alarm, light alarm

Protection grade is IP65

Can continuously record 500 alarm events

Standard lithium thionyl chloride battery, voltage DC3.6V

Automatic zero point calibration at startup

Sensor life monitoring alarm prompt

Regular accuracy calibration reminders

Small size, light weight, with stainless steel back buckle, easy to carry

Specifications and configuration

Name	MY101
Display Method	LCD
Button	3 buttons
Detection Principle	Electrochemistry
Power Supply	Disposable lithium thionyl chloride battery DC3.6V
Working Current	<200uA
Continuous Working time	≥2 years (calculated based on normal working hours of 8 hours per day);
communication Method	Bluetooth communication (optional)

Accuracy	<3%FS
Response Time (T90)	30 seconds
Repeatability	<2%
Alarm Method	Sound, light and vibration alarm
Weight	About 100g
Protection Level	IP65
Explosion-Proof Grade	Ex ib IIC T4 Gb
Operating Temperature	-20℃~50℃
Working Humidity	10%RH~95%RH (no condensation)
Atmospheric Pressure	86Kpa~106Kpa
Implementation Standards	GB3836.1-2021, GB3836.4-2021, GB15322.3-2019

Sensor Parameter

Gas Type	Chemical Formula	Range	Resolution	Operating Temperature
Hydrogen sulfide	H ₂ S	0~100ppm	1ppm	-20℃~50℃
Carbon Monoxide	CO	0~1000ppm	1ppm	-20℃~50℃
oxygen	O ₂	0~30%VOL	0.2%VOL	-30℃~50℃
Chlorine	CL ₂	0~50ppm	0.1ppm	-20℃~50℃
hydrogen	H ₂	0~1000ppm	1ppm	-20℃~50℃
Ammonia	NH ₃	0~100ppm	1ppm	-20℃~50℃
Nitric oxide	NO	0~20ppm	1ppm	-20℃~50℃
Nitrogen dioxide	NO ₂	0~100ppm	0.1ppm	-20℃~50℃

ozone	O3	0~10ppm	0.02ppm	-20℃~50℃
carbon dioxide	CO2	0~1ppm	0.01ppm	-20℃~50℃
Hydrogen cyanide	HCN	0~100ppm	0.1ppm	-20℃~50℃
Phosphine	PH3	0~20ppm	0.1ppm	-20℃~50℃
Methyl mercaptan	CH3SH	0~10ppm	0.1ppm	-20℃~50℃

Note: If you need to monitor other gas types or gas parameters, please communicate with the manufacturer;

Accessories

Manual、Calibration adapter、Calibration certificate