



MST101

Portable single gas alarm detector

MST101 series portable gas detector is a reliable detection instrument with small size and supports customization for various toxic or harmful gases. It comes with fall alarm function, OLED display screen. The shell is designed with rubber coated which has a protection grade of IP66. The use of anti-static materials can meet the explosion-proof requirements. It can continuously detect the realtime concentration of toxic gases or oxygen in the ambient air of industrial and mining enterprises, with sensitive reaction and convenient carrying. It has been widely used in iron and steel metallurgy, chemical plant, petrochemical industry, emergency rescue, industrial safety and other industries.

Features and benefits

- Compact size, easy to carry
- Automatic zero calibration
- Automatic detection of equipment faults
- Unit of ppm, mg/m3, μmol/mol, vol%
- Fall alarm
- Display can be inverted
- Sound, light and vibration alarm method, With mute function
- Calibration countdown reminder
- Adjustable alarm threshold
- Rechargeable lithium-ion polymer batteries
- Anti-static shell covered with rubber

Specifications and configuration

Sensor	Electrochemical, NDIR
Sampling Type	Diffusion
Safety Certifications	 Ex ib IIC T4 Gb II 1G Ex ia IIC T4 Ga 2014/30/EU (Electromagnetic Compatibility)
IP Grade	IP66
Carried standard	GB12358-2006
Working Temp.	-20°C~55°C
Humidity	0%~95%, noncondensing
Screen	OLED display
Display Content	Gas symbol, gas unit, real-time value, battery, calibration information, temperature, time
Alarm mode	95dB/10cm buzzer, red and yellow LEDs flash, built-in vibration
Alarm project	High Conc./Low Conc./TWA/STEL/Overrange/Low battery/Fall alarms
Alarm set point	Alarm threshold can be set freely
Calibration method	Zero/span gas calibration
Typical working time	Full charged working >20 days, Recharges < 4 hours
Battery Parameter	Rechargeable lithium-ion explosion-proof battery, 3.7V-500mAh
Charging temp.	0°C~40°C
Shell Material	ABS, anti-static TPE

Size	93mm×52mm×30mm(Contains no clip)
Weight	About 98g

Sensor Parameter

Gas	Principle	Range	Resolution	Accuracy
CO	Electrochemical	0~1000PPM	1PPM	±10%
H2S	Electrochemical	0~100PPM	1PPM	±10%
SO2	Electrochemical	0~100PPM	1PPM	±10%
NH3	Electrochemical	0~100PPM	1PPM	±10%
CL2	Electrochemical	0~50.0PPM	0.1PPM	±10%
HCN	Electrochemical	0~30.0PPM	0.1PPM	±10%
HF	Electrochemical	0~10.0PPM	0.1PPM	±10%
NO2	Electrochemical	0~100PPM	0.1PPM	±10%
O2	Electrochemical	0~30.0%vol	0.1PPM	±3.0%FS
H2	Electrochemical	0~1000PPM	1PPM	±10%
CO2	NDIR	0~5.00%vol	0.01%vol	±5%FS
CH4	NDIR	0~5.00%vol	0.01%vol	±5%FS
VOCs	Electrochemical/PID	0~10/20/200/2000PPM	1PPM	±5%FS

Note: Please contact us for further customized gas or range if not listed in table.

Standard Accessories *(Included in the original packaging)*



Operation manual



Calibration cover



Charger