



MST410

Portable Multi-gas Detector

MST410 gas detector is a convenient device capable of measuring up to 6 different gases. This compact easily used detector provides accurate, reliable measurements of combustible, oxygen and many kinds of toxic gases or vapors, such as Cl₂, CO, CO₂, H₂, H₂S, HCN, NH₃, NO, NO₂, PH₃, SO₂, O₃, VOC and so on. It has built-in settings and smart sensors, which allows users to change sensors to measure different gases. The device is equipped with 4 buttons that can perform a variety of functions without additional PC applications. The detector comes with data storage capabilities and Bluetooth data transmission. Colorful HD screen makes worker view data clearly even in the bright sun. The durable shell with anti-static rubber coated makes it in IP66 and meets the explosion-proof level, used for harsh environments or extreme temperatures. MST410 device has been widely used in metal smelting, petrochemical, emergency rescue, chemical production to improve life safety.

Features and Benefits

- Intelligent sensors, plug and play
- Support more than 30 types intelligent sensors
- Datalogging & events download
- Unit: ppm, mg/m³, %LEL, %VOL
- Built-in settings for many functions
- With temperature compensation
- Calibration overdue reminder
- Large graphical TFT LCD, with easy-to-use
- More than 3 years sensor lifetime (Oxygen sensor 2 years)
- A two-gas combination sensor is required for a 6-gas configuration
- Bluetooth to transmit data (PC software)
- All function self-test, failure reminder (including sensor fault detection)
- Rechargeable lithium-ion polymer battery
- IP66 durable shell with anti-static rubber coated
- Fall alarm, SOS alarm.
- Highly versatile and customizable

Specifications and Configuration

Sensor Principle	Electrochemical, NDIR, Catalytic, Semiconductor, TDLAS and PID.
Sampling Method	Diffusion
Temperature	-20°C~55°C
Humidity	0%~95%RH, (non-condensing)
Screen	Colorful TFT LCD
Display	Gas symbol, Gas unit, Real-time value, Battery indicator, Calibration information, Time
Alarm Signal	95dB/30cm buzzer / Red and yellow LEDs flash / Vibration
Alarm Model	High Alarm / Low Alarm / TWA / STEL / Overrange / Low battery / Fall alarm / SOS alarm
Alarm Settings	Users can adjust the alarm threshold according to requirements
Calibration	Auto-zeroing / Zeroing / Span gas calibration
Datalog & Events	1660pcs datalog + 999pcs events
Data Transfer	Bluetooth connection to PC, for viewing & downloading data
Typical working time	Full charged working >20 hours(LEL/O ₂ /CO/H ₂ S, no bluetooth), Recharges < 3 hours
Battery Parameter	Rechargeable lithium-ion explosion-proof battery, 3.7V-3000mAh

Charging Temp.	0°C~40°C
Working Current	Normal working current: ≤100mA Alarm current: ≤240mA
Safety Certifications	 Ex ib IIC T4 Gb  II 1G Ex ia IIC T4 Ga  2014/30/EU (Electromagnetic Compatibility) ROHS
IP Grade	IP66
Shell Material	ABS, PC, anti-static TPE
Size	130mm×74mm×37mm
Weight	About 275g
Warranty	1 Year after sale (including sensors)

Sensor Parameter

Sensor	Principle	Range	Resolution	Accuracy
O2	Electrochemical	0~30.0%VOL	0.1%VOL	±3%FS
CO	Electrochemical	0~1000/2000/5000ppm	1ppm	±5%
H2S	Electrochemical	0~100/200ppm	1ppm	±5%
SO2	Electrochemical	0~100ppm	0.1ppm	±5%
NH3	Electrochemical	0~100ppm	1ppm	±5%
CL2	Electrochemical	0~10ppm	0.1ppm	±5%
HCN	Electrochemical	0~50ppm	0.1ppm	±5%
HCL	Electrochemical	0~20ppm	0.1ppm	±5%
VOC	Electrochemical / PID	0~50ppm	0.1ppm	±5%FS
NO2	Electrochemical	0~100ppm	0.1ppm	±5%
CO2	NDIR	0~5.00%VOL	0.01%VOL	±5%FS
EX	Catalytic / NDIR	0~100%LEL/ %VOL	1%LEL/ 0.1%VOL	±5%FS
H2	Electrochemical	0~1000ppm	1ppm	±5%
CH4	TDLAS	1%VOL/5%VOL/100%VOL	0.01%VOL	±5%
Dual CH4/CO2	NDIR	CH4,0~5.00%VOL CO2,0~5.00%VOL	0.01%VOL	±5%
Dual CH4/CO2	NDIR	CH4,0~100%VOL CO2,0~100%VOL	0.01%VOL 0.01%VOL	±5%
Dual C3H8/CO2	NDIR	C3H8,0~2.00%VOL CO2,0~5.00%VOL	0.01%VOL 0.01%VOL	±5%
Dual H2S/SO2	Electrochemical	H2S,0~100ppm SO2,0~20ppm	1ppm 0.1ppm	±5%
Dual CO/H2S	Electrochemical	CO,0~1000ppm H2S,0~100ppm	1ppm 1ppm	±5%

Note: We can customize the detection for other gases or ranges not listed in the table. If you require any further information, please feel free to reach out to us.

Standard Accessories *(Included in the original packaging)*



Operation manual



Calibration Cap



Charger

Optional Accessories *(Need to be purchased separately)*



Cradle Charger



Leather Bag

** Due to ongoing research and product improvement, specifications are subject to change without notice.*