# MST410

Portable multi-gas detector

MST410 Personal Monitor is a smart gas detection instrument for the measurement of up to 5 gases. This compact, easily used detector provides accurate, reliable measurements of explosive, combustible, oxygen and many kinds of toxic gases and vapors such as Cl2, CO, CO2, H2, H2S, HCN, NH3, NO, NO2, PH3, SO2, O3, VOC and so on. MST410 equipped with built-in settings and smart sensors, which allows you to change sensors to measure different gases. The device has 4 buttons to perform many functions without additional PC applications. Colorful HD screen makes worker view data clearly even in the bright sun. The durable shell with anti-static rubber coated makes it in good dust-water-proof and arrived the explosion-proof requirements, which toughs enough for harsh environments and extreme temperatures. MST410 device has been widely used in metal smelting, petrochemical, emergency rescue, chemical production to improve life safety.

Features and benefits

- Up to 5 gases measurement, smart sensors
- 1600pcs data storage, Bluetooth to transmit data
- Unit: ppm, mg/m3, LEL%, vol%
- Built-in settings for many functions
- With temperature compensation
- Calibration overdue reminder

- More than 3 years sensor life (Oxygen sensor 2 years)
- IP66 durable shell with anti-static rubber coated
- All function self-test, failure reminder（including sensor fault detection)
- Rechargeable lithium- ion polymer batteries
- Temperature and time display
- Fall alarm

Specifications and configuration

Sensor principle	Electrochemical, Infrared, Catalytic oxidation, Galvanic cell and PID
Sampling method	Diffussion
Working temp.	-20℃~55℃
Working humidity	0~95%, noncondensing
Screen	Colorful TFT LCD
Display content	Gas symbol, Gas unit, Real-time value, Battery indicator, Calibration information, Temperature, Time
Alarm signal	95dB/30cm buzzer / red and yellow LEDs flash / built-in 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 / Full scale calibration
Battery	Polymer lithium-ion rechargeable battery, full charge working more than 20 hours
Battery Parameter	Rated voltage 3.7V / Capacity 3000mAh
Charging temp.	0℃~40℃
Working current	Normal working current:≤100mA Alarm current:≤240mA
IP Grade	IP-66

Safety Certifications	**CLEx** **Ex ib IIC T4 Gb**
	ATEX **II 1G Ex ia IIC T4 Ga**
	CE **2014/30/EU (Electromagnetic Compatibility)**
Shell Material	ABS, PC, anti-static TPE
Size	130mm×74mm×37mm
Weight	About 275g
Warranty	1 Year after sale (including sensors)

Sensor Parameter

Gas	Principle	Range	Resolution	Accuracy	Low Alarm	High Alarm	STEL	TWA
CO	Elec-chem	0~1000ppm	1ppm	±10%	35 ppm	200 ppm	200 ppm	35 ppm
H2S	Elec-chem	0~100ppm	1ppm	±10%	10 ppm	15 ppm	15 ppm	10 ppm
SO2	Elec-chem	0~100ppm	0.1ppm	±10%	2 ppm	5 ppm	5 ppm	2 ppm
NH3	Elec-chem	0~100ppm	1ppm	±10%	25ppm	50 ppm	30 ppm	25 ppm
CL2	Elec-chem	0~10ppm	0.1ppm	±10%	0.5 ppm	1 ppm	1 ppm	0.5 ppm
HCN	Elec-chem	0~50ppm	0.1ppm	±10%	4.7 ppm	10 ppm	10 ppm	4.7 ppm
HCL	Elec-chem	0~20ppm	0.1ppm	±20%	4.6 ppm	9.2 ppm	9.2 ppm	4.6 ppm
Benzene	PID	0~50ppm	0.1ppm	±10%fs	3.5ppm	7 ppm	7 ppm	3.5 ppm
NO2	Elec-chem	0~100ppm	0.1ppm	±10%	3 ppm	5 ppm	5 ppm	3 ppm
CO2	NDIR	0~5.00%vol	0.005%vol	±5%fs	0.5%vol	1%vol	——	——
EX	Catalytic	0~100%LEL	1%LEL	±5%fs	25%LEL	50%LEL	——	——
H2	Elec-chem	0~1000ppm	1ppm	±10%	100 ppm	500 ppm	500 ppm	100 ppm
O2	Galvanic	0~30.0%vol	0.1%vol	±3%fs	19.5%vol	23.5%vol	——	——

Note: Please contact the us for confirmation before ordering. Other detection gases, range and alarm concentration can be customized if not listed in table.

Accessories

Operation manual   Calibration cover   Charger   Calibration certificate   Holster/Lanyard

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