

The Perfect Complement for a Stationary Toxic Gas Monitoring System

A personal monitor should be just that – personal. An instrument you can put on and forget about. Right up until the moment you need it. And that's just what MST Technology had in mind when it designed the **MSTox 9001** Personal Toxic Gas Monitor. A monitor so small and lightweight that most of the time you won't even realize you are wearing it. Yet it is always ready to alert you the instant you encounter a potentially hazardous situation.

The heart of the **MSTox 9001** is a fully warranted electrochemical sensor. Designed for optimum stability, sensitivity, and specificity, it reacts quickly with the gas being monitored, producing an electrical signal directly proportional to the actual gas concentration.

The **MSTox 9001** continuously displays gas concentration on an easy-to-read liquid crystal display (LCD). So you can check ambient conditions or judge the severity of a release with just a quick glance at the instrument. Equally important, the **MSTox 9001** features both acoustical and optical alarms that automatically alert you whenever gas concentrations exceed your pre-set levels.

Never before has so much protection been put in such a compact package. Why not make the **MSTox 9001** your choice in personal toxic gas monitors?



Quick Facts

Applications:

- Personal monitoring
- Leak detection
- Incoming cylinder inspection
- Emergency response
- Equipment maintenance

Advantages:

- Digital readout continuously displays ambient gas levels, faces "up" for easy reading
- Audio and visual alarms alert you to hazardous situations quickly and effectively
- No dynamic gas calibration required
- Earphone capability for use in areas with high noise levels
- Dual-level concentration alarms
- Rugged high impact exterior
- Small lightweight design
- Plug-in sensor provides a full year of warranted protection against hazardous gases
- Specific gas response
- Stable sensor response
- Poison resistant

Technical Overview

Performance specifications

Sensor types	2- or 3-electrode electrochemical cells, depending on target gas
Operational Cell Life	> 1 year (under normal conditions)
Display	3-1/2 digit LCD
Concentration Alarms	User-settable dual-level Low alarm resettable
Alarm Indicators	Audio and visual (LED)
Accoustical Alarm Loudness	~50 dB (A)

Operating Conditions

Temperature	-20 °C to +40 °C -4 °F to +104 °F
Humidity	20 % to 90 % r.h. (non-condensing)
Short Term Exposure	0 % to 99 % r.h.
Battery Life	approx. 3000 hours
Rechargeable Battery	approx. 1000 times rechargeable

Facility requirement

Overall Dimensions	93 x 47 x 21 mm
H x W x D	3.63 x 1.83 x 0.82 in
Weight	98 g

Designed to be intrinsically safe

The MSTox is approved for use in hazardous atmospheres.

It meets the following intrinsic safety standards:

EN 50014, EN 50020

DMT 02 ATEX E 258: I M2 EEx ib I
II 2G EEx ib IIC T6

CSA Class I Division 1 and 2, Groups A, B, C and D

MSHA 2G-3850-0

Certificate of Compliance issued by the USSR
State Committee for Standards, No. 12640-91

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Detectable Gases

Ammonia (NH ₃)	Hydrogen Chloride (HCl)
Arsine (AsH ₃)	Hydrogen Cyanide (HCN)
Bromine (Br ₂)	Hydrogen Fluoride (HF)
Carbon Monoxide (CO)	Hydrogen Sulfide (H ₂ S)
Chlorine (Cl ₂)	Nitric Oxide (NO)
Diborane (B ₂ H ₆)	Nitrogen Dioxide (NO ₂)
Fluorine (F ₂)	Ozone (O ₃)
Germane (GeH ₄)	Oxygen (O ₂)
Hexamethyldisilazane (HMDS)	Phosgene (COCl ₂)
Hydrazine (N ₂ H ₄)	Phosphine (PH ₃)
Hydrogen (H ₂)	Silane (SiH ₄)
Hydrogen Bromide (HBr)	Tetraethylorthosilicate (TEOS)
	further gases on request

Options and accessories

Rechargeable Battery	P/N 8600.2200
Battery Charger 230 V/50 Hz	P/N 9107-0001
Battery Charger 115 V/60 Hz	P/N 9107-0002
Carrying Case for 10 MSTox and 1 Battery Charger	P/N 9001.4600.00.00

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