



GAZOMAT™

A company of T.D. Williamson, Inc.

**Personal protection
for hazardous environments**



μGAZTOX™

Oxygen and toxic gas detector

- Easy to use - single control key**
- 2 years warranty**
- Maintainable**
- Resistant to water - IP 67 protection**
- ATEX certification**

ISO 9001
BUREAU VERITAS
Certification



**Maintenance
of pressurized
pipelines**

THE μ GAZTOX™ DETECTOR IS A PERSONAL PROTECTION DEVICE DESIGNED FOR USE BY OPERATORS WHO MAY BE EXPOSED TO HAZARDOUS GAS CONCENTRATIONS IN THEIR WORKPLACE.

DEPENDING ON THE TYPE OF SENSOR FITTED THIS SINGLE GAS DETECTOR MEASURES HAZARDOUS CONCENTRATIONS OF OXYGEN (O_2) OR TOXIC GASES SUCH AS HYDROGEN SULPHIDE (H_2S), CARBON MONOXIDE (CO), SULPHUR DIOXIDE (SO_2) OR OTHER GASES. THE μ GAZTOX™ IS AN ESSENTIAL TOOL FOR ON-SITE SAFETY OF PROFESSIONALS.

VIEW OF μ GAZTOX™ (REAL SIZE)



EASY TO USE

- Single control key
- Self-test at start-up
- Displays gas concentrations and status indicators

ROBUST AND COMPACT DESIGN

- Elastomer housing which is resistant to extreme conditions
- High protection index - IP 67
- Fastening clips for hands-free utilisation - can be clipped onto pockets, belts, straps or safety helmets

POWERFUL ALARMS

- Visual (red flashing LEDs)
- Audio (95 dB)
- Vibration

MAINTAINABLE EQUIPMENT

- 2 years warranty
- Sensor and battery easily replaceable

ALARM THRESHOLDS

- TWA and STEL alarms
- High and low instantaneous alarms for oxygen
- High instantaneous alarm for toxic gases



MEASUREMENT CHARACTERISTICS

SENSOR*	MEASUREMENT RANGE	RESOLUTION	INSTANTANEOUS ALARMS		LIMIT VALUES	
			HIGH	LOW	VLE (STEL)	VME (TWA)
Oxygen (O ₂)	0 – 30 % Vol.	0.1 % Vol.	23% Vol.	19% Vol.	-	-
Carbon monoxide (CO)	0 – 1000 ppm	1 ppm	300 ppm	-	100 ppm	50 ppm
Hydrogen sulphide (H ₂ S)	0 – 100 ppm	1 ppm	30 ppm	-	10 ppm	5 ppm
Sulphur dioxide (SO ₂)	0 – 20 ppm	0.1 ppm	10 ppm	-	5 ppm	2 ppm
Chlorine (Cl ₂)	0 – 10 ppm	0.1 ppm	10 ppm	-	1 ppm	0.5 ppm
Ammonia (NH ₃)	0 – 1000 ppm	15 ppm	100 ppm	-	20 ppm	10 ppm
Phosphine (PH ₃)	0 – 20 ppm	0.05 ppm	1 ppm	-	0.3 ppm	0.1 ppm
Ozone (O ₃)	0 – 1 ppm	0.02 ppm	1 ppm	-	0.2 ppm	0.1 ppm

* This list of sensors is not exhaustive - please contact us for any specific requirements



APPLICATIONS

- Refineries
- Petrochemical industry
- Miscellaneous work sites
- Industrial maintenance
- Chemical industry
- Fire and rescue brigades
- Industrial safety
- Paper pulp industry
- Water treatment industries
- Shipyards
- Waste disposal centres, silos, tank-cars
- Power stations, nuclear power plants etc.

ACCESSORIES

The **μGAZTOX™** is supplied ready-to-use with the following accessories:

1. Calibration cap-adaptor
2. Neck strap
3. Crocodile clip
4. Fastening clip for belts, pockets or safety helmets
5. T8 screwdriver
6. 3.6V Lithium battery (not shown)
7. User manual (not shown)

OPTIONAL TEST KIT

The test kit is made up of:

- Gas cylinder
- Connecting hose





μ GAZTOXTM

TECHNICAL SPECIFICATIONS

Measurement principle :

- Electrochemical cell

Measurement unit :

- ppm for toxic gases and % vol. for oxygen
- Automatic zero-setting

Response time :

- < 20 seconds

Display :

- Liquid crystal digital display with icons and backlighting
- Continuous display of type of gas detected, gas concentration and battery capacity
- Max. and min. instantaneous measured values, TWA (Time Weighted Average over 8 hours) and STEL (Short Time Exposure Limit - average over 15 minutes), max. and min. measured values.
- Alarms : Max, Min, TWA, STEL

Keypad :

- Single control key (three-direction joystick)

Power supply :

- Lithium battery, 3.6 Volts, 1100 mAh
- 2 years operational life

Alarms :

- Visual:
 - flashing red LEDs
 - display of ALARM message, alarm type and alarm threshold
- Audible, dual-tone alarm, < 95 dB at a distance of 30 cm
- Vibro alarm : powerful, suitable for noisy environments

Alarm thresholds :

- Adjustable High and Low instantaneous alarms for oxygen
- Adjustable High instantaneous alarm for toxic gases
- Alarms for TWA value (Time Weighted Average over 8 hours) and STEL value (Short Time Exposure Limit - average over 15 minutes)

Tests :

- Self-test at start-up of all key functions (circuit board, sensor, battery)
- Continuous battery test

Housing :

- Rugged, watertight and impact resistant elastomer housing

Dimensions :

- H 94 mm X W 48 mm X 28 mm

Weight :

- 91 g with fastening clip

Conditions for use :

- Humidity: from 15% to 95 % RH
- Temperature: from - 20°C to + 50°C

Protection index :

- IP 67 (protection against dust and effects of brief immersion in water)

Warranty :

- 2 years, including sensor

Maintenance :

- Sensor and battery easily replaceable

Certifications :

- CE 0080 marking
- EMC : Directive 89/336 CE CEM
- ATEX : II 1G Ex ia IIC T4, in compliance with Europeans standards of use in explosive atmospheres EN 60079-0, EN 60079-11

After-Sales services:

GAZOMAT provides maintenance for all its products both in France and worldwide via its network of representatives.

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