



Personal Protection  
Toxic Gas Concentrations  
Health and Safety


## Personal protection for hazardous environments

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 ( $SO_2$ ). The μGAZTOX™ is an essential tool for on-site safety of professionals.

### Benefits

- Easy to use
- Robust and compact design
- Powerful alarms
- Low maintenance
- 2 year warranty

### Features

- Audio alarm 95db
- Visual alarm (LED)
- Rugged and lightweight
- Wide LCD screen, easy to read
- Optional accessories
- Water resistant - IP67
- Atex certified 

### Applications

- Waste disposal centres, silos, etc
- Water treatment works
- Power stations, nuclear power plants
- Petro-chemical industry
- Industrial safety
- Miscellaneous work sites



## Technical Specifications

### μGAZTOX™

#### PHYSICAL

Display	<ul style="list-style-type: none"> <li>Liquid crystal digital display with icons and backlighting.</li> <li>Continuous display of type of gas detected, gas concentration, and battery capacity.</li> <li>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.</li> <li>Alarms: Max, Min, TWA, STEL</li> </ul>
Keypad	Single control key (three-direction joystick)
Power Supply	<ul style="list-style-type: none"> <li>Lithium battery, 3.6 Volts, 1100 mAh</li> <li>2 years operational life</li> </ul>
Alarms	<ul style="list-style-type: none"> <li>Visual: - flashing red LEDs - display of ALARM message, alarm type and alarm threshold</li> <li>Audible, dual-tone alarm, &lt; 95 dB at a distance of 30cm</li> <li>Vibro alarm: powerful, suitable for noisy environments</li> </ul>
Alarm Thresholds	<ul style="list-style-type: none"> <li>Adjustable High and Low instantaneous alarms for oxygen</li> <li>Adjustable High instantaneous alarm for toxic gases</li> <li>Alarms for TWA value (Time Weighted Average over 8 hours) and STEL (Short Time Exposure Limit - average over 15 minutes)</li> </ul>
Housing	Rugged, watertight and impact resistant elastomer housing

#### DIMENSIONS AND WEIGHT

Dimensions	H 94 mm x W 48 mm x 28 mm
Weight	91 g with fastening clip

#### GENERAL

Measurement Principle	Electrochemical cell
Measurement Unit	ppm for toxic gases and % vol. for oxygen
Response Time	< 20 seconds
Tests	<ul style="list-style-type: none"> <li>Self-test at start-up of all key functions (circuit board, sensor, battery)</li> <li>Continuous battery test</li> </ul>
Conditions for use	<ul style="list-style-type: none"> <li>Humidity: from 15% to 95% RH</li> <li>Temperature: from -20°C to +50°C</li> </ul>
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

#### CERTIFICATION

Certifications	<ul style="list-style-type: none"> <li>CE 0080 marking</li> <li>EMC: Directive 89/336 CE CEM</li> <li>ATEX: II 1G Ex ia IIC T4, in compliance with European standards of use in explosive atmospheres EN 60079-0, EN 60079-11</li> </ul>
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## Technical Specifications

### μGAZTOX™ cont'd.

#### MEASUREMENT CHARACTERISTICS

Sensor	Measurement Range	Resolution	Instantaneous Alarms		Limit Values	
			High	Low	VLE (STEL)	VME (TWA)
Oxygen (O <sub>2</sub> )	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 <sub>2</sub> S)	0 - 100 ppm	1 ppm	30 ppm	-	10 ppm	5 ppm
Sulphur Dioxide (SO <sub>2</sub> )	0 - 20 ppm	0.1 ppm	10 ppm	-	5 ppm	2 ppm
Ammonia (NH <sub>3</sub> )	0 - 1000 ppm	15 ppm	100 ppm	-	20 ppm	10 ppm

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

#### ACCESSORIES (see top of Page 1)

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)