

GAS DETECTOR ECOTOX

PART.NO. 1225000-1225034

PORTABLE SINGLE GAS DETECTOR O₂, H₂S, CO

GENERAL INFORMATION

- 2 Year disposable gas detector
- Low maintenance
- Power full alarm
- Vibration alarm
- Clear color coding for each gas type
- ATEX / IECEx approved
- LC Display

The **ECOTOX** is a portable "disposable" gas detector which detects Oxygen (O₂), Hydrogen Sulphide (H₂S) or Carbon Monoxide (CO). The ECOTOX is compact, rugged and easy to use.

The **ECOTOX** thanks his name to the combination of it's **ECONOMICAL** feature: "low cost of ownership" and TOXIC gases. The detector is activated with a one-button action and will operate continuously during two years without maintenance. The remaining life span is continuously displayed in months, then days and then hours. When the user is exposed to a level of gas in excess of the alarm level, the **ECOTOX** will demand attention. The detector alarms with a loud audible signal, a rapid flashing visual alarm as well as an internal vibration alarm.

The portable detector is composed of a robust EMC protected housing with sturdy crocodile clip, a LC display displaying remaining life time, status, start / test push button for activation and periodic self-test.

Due to its minimal weight and ergonomic, robust construction, the **ECOTOX** is particularly suitable for use under harsh conditions, such as refineries, chemical industry, fire brigades, etc. to accomplish its safety task to the maximum.

Explosion safety, this detector is ATEX and IECEx certified and can be used in Ex zones because of its intrinsic safety design.



Periodically, simple proper operation of the **ECOTOX** gas detector can be checked by the optional **GAS TESTSTATION**. The unit performs a bump test that takes about 15 ~ 30 seconds. During the test operation and functionality of the **ECOTOX** detector

is checked using test gas. A test is quick and easy to perform. A cost effective option from Buveco.

APPLICATIONS:

- + Chemical Industry
- + Refineries
- + Waste water treatment
- + Boiler houses
- + Steel Industry
- + Emergency services (fire brigade, etc.)
- + Food industry

CONSILIUM DOES MORE THAN JUST DELIVER!

- + Tailored advice
- + Project management
- + Technical support
- + Training and education
- + Commissioning
- + Onsite service / maintenance / calibration
- + Rentals

ORDERING INFORMATION

VERSIONS





DESCRIPTION	PART NO.	GAS TYPE	MEASURING RANGE	LOW ALARM	HIGH ALARM	OPERATING TEMPERATURE	RELATIVE HUMIDITY (N.C.)
Ecotox H ₂ S	I225000	Hydrogen Sulfide (H ₂ S)	0 – 100 ppm	10 ppm	15 ppm	-20 tot +50 °C	15-90%
Ecotox H ₂ S	I225003	Hydrogen Sulfide (H ₂ S)	0 – 20,0 ppm	1,6 ppm	2,4 ppm	-20 tot +50 °C	15-90%
Ecotox CO	I225001	Carbon Monoxide (CO)	0 – 500 ppm	20 ppm	100 ppm	-20 tot +50 °C	15-90%
Ecotox O ₂	I225002 A/I	Oxygen (O ₂)	0 – 25 Vol%	19,5 Vol%	22,5 Vol%	-20 tot +55 °C	15-90%
Ecotox O ₂	I225002 E/I	Oxygen (O ₂)	0 – 25 Vol%	19,5 Vol%	22,5 Vol%	-20 tot +55 °C	15-90%
Ecotox CO (LHS)*	I225034	Carbon Monoxide (CO)	0 – 500 ppm	20 ppm	100 ppm	-20 tot +50 °C	15-90%

* Low sensitivity to hydrogen

OPTIONS (TO SPECIFY WHEN ORDERING)

TYPE	DESCRIPTION
A	Read-out current value during alarm status
B	Overload mode; after detection outside the measuring range "CHECK" will appears in the display. After which the united needs to be checked with test gas
C	Evacuation mode: the detector will alarm at a higher frequency if you go towards the risk source (gas leak)
D	Custom specific alarms, alarms adjusted to the customer LOW or HIGH Alarm requirement / specification.
E	Continuous readout of actual value (only Oxygen version)
F	Data log: measured values are stored in internal memory (standard with CO)
G	Exposure alarm, TGG 8 hours
H	Exposure alarm, TGG 15 min.
I	On / Off function, in case the detector is not used it can be switched off

ACCESSOIRES

OPTION		PART NO.	DESCRIPTION
Gas Test-station		I225810	Full automatic test station for the ECOTOX
		I225817	On Demand Flow Regulator; Brass (adjustment of the gas flow)
		I225818	On Demand Flow Regulator; Stainless Steel (adjustment of the gas flow)
Testgas cylinders		9990522	Test gas for the CO detector; 100 ppm CO in air.
		9990507	Test gas for the H ₂ S detector; 10 ppm alarm (25 ppm H ₂ S in N ₂)
		9990524	Test gas (N ₂) for the O ₂ detector
		9990540	Test gas for the H ₂ S detector; 1.6 ppm alarm (10 ppm H ₂ S in N ₂)

SPECIFICATIONS

PRODUCT	ECOTOX
Life time	24 Months (at max. 5 minutes alarm per day)
Operation	continuous, after activation (Alternative: On / Off "ordering option I")
Dimensions	82 x 56 x 42 mm
Weight	Approx. 100 grams
Housing	PCA-Faradex / EMC protected
Measuring principle	Electrochemical sensor
Battery	Lithium
Storage temperature	0 to 20°C
Display	LC-display, displaying alarm values, remaining life time & status
Alarm settings	2 alarm setting. Low and high
Alarms	Sound: Buzzer > 90 dB / 30 cm Visual: Red flashing LED's & Display read out Sense: Vibration alarm
Mounting	Heavy duty crocodile carrying clip
CE marking	ATEX (Directive 2014/34/EU) Electromagnetic Compatibility (Directive 2014/30/EU)
Approvals	ATEX II 2 G Ex ia IIC T4 Gb IECEX Ex ia IIC T4 Gb
Manufacturer	Consilium Safety Netherlands B.V.

