# GAS DETECTOR
# ECOTOX

PART.NO. **1225000-1225034**

PORTABLE SINGLE GAS DETECTOR O$_2$, H$_2$S, 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 (O$_2$), Hydrogen Sulphide (H$_2$S) or Carbon Monoxide (CO). The ECOTOX is compact, rugged and easy to use.

The **ECOTOX** thanks his name to the combination of it's **ECO**NOMICAL 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

The specifications described herein are subject to change without notice.

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## ORDERING INFORMATION

| VERSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| DESCRIPTION | PART NO. | GAS TYPE | MEASURING RANGE | LOW ALARM | HIGH ALARM | OPERATING TEMPERATURE | RELATIVE HUMIDITY (N.C.) |
| Ecotox $H_2S$ | 1225000 | Hydrogen Sulfide ($H_2S$) | 0 – 100 ppm | 10 ppm | 15 ppm | -20 tot +50 °C | 15-90% |
| Ecotox $H_2S$ | 1225003 | Hydrogen Sulfide ($H_2S$) | 0 – 20,0 ppm | 1,6 ppm | 2,4 ppm | -20 tot +50 °C | 15-90% |
| Ecotox CO | 1225001 | Carbon Monixide (CO) | 0 – 500 ppm | 20 ppm | 100 ppm | -20 tot +50 °C | 15-90% |
| Ecotox $O_2$ | 1225002 | Oxygen ($O_2$) | 0 – 25 Vol% | 19,5 Vol% | 22,5 Vol% | -20 tot +55 °C | 15-90% |
| Ecotox CO (LHS) | 1225034 | Carbon Monixide (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 |
| GasTest-station |  | 1225810 | Full automatic test station for the **ECOTOX** |
| |  | 1225817 | On Demand Flow Regulator, Brass (adjustment of the gas flow) |
| |  | 1225818 | 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 $H_2S$ detector, 10 ppm alarm (25 ppm $H_2S$ in $N_2$) |
| | | 9990524 | Test gas ($N_2$) for the $O_2$ detector |
| | | 9990540 | Test gas for the H2S detector, 1.6 ppm alarm (10 ppm H2S in N2) |

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## SPECIFICATIONS

| PRODUCT | ECOTOX |
|---|---|
| Life time | 24 Months (at max. 5 minutes alarm per day) |
| Operation | continuous, after activation (Alternative: On / Off "ordering option 1") |
| 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<br>Visual: Red flashing LED's & Display read out<br>Sense: Vibration alarm |
| Mounting | Heavy duty crocodile carrying clip |
| CE marking | ATEX (Directive 2014/34/EU)<br>Electromagnetic Compatibility (Directive 2014/30/EU) |
| Approvals | ATEX     II 2 G Ex ia IIC T4 Gb<br>IECEx     Ex ia IIC T4 Gb |
| Manufacturer | Buveco Gasdetection BV, a Consilium Group Company |

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