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# GAS DETECTOR ECOTOX

PART.NO. 1225000-1225034

PORTABLE SINGLE GAS DETECTOR O, H,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  $(H_2S)$  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  $15 \sim 30$  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 Consilium.

#### **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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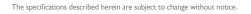
## ORDERING INFORMATION

VERSIONS									
DESCRIPTION	PART NO.	GAS TYPE	MEASURING RANGE	LOW ALARM	HIGH ALARM	OPERATING TEMPERATURE	RELATIVE HUMIDITY (N.C.)		
Ecotox H <sub>2</sub> S	1225000 I	- Hydrogen Sulfide (H <sub>2</sub> S)	0 – 100 ppm	10 ppm	15 ppm	-20 tot +50 °C	15-90%		
	1225000 A/I								
	1225003 I		0 – 20,0 ppm	I,6 ppm	2,4 ppm				
	1225003 A/I								
Ecotox CO	1225001 I/F	- Carbon Monixide (CO)	0 – 500 ppm	20 ppm	100 ppm	-20 tot +50 °C	15-90%		
	1225001 A/I/F								
Ecotox CO (LHS)*	1225034 I/F								
	1225034 A/I/F								
Ecotox O <sub>2</sub>	1225002 A/I	0(0)	0 – 25 Vol%	19,5 Vol%	22,5 Vol%	-20 tot +55 °C	15-90%		
	1225002 E/I	Oxygen (O <sub>2</sub> )							

<sup>\*</sup> Low sensitivity to hydrogen

FUNCTION DESCRIPTION ( FOUND IN PART NUMBER)				
TYPE	DESCRIPTION			
А	Read-out current value during alarm status			
E	Continuous readout of actual value (only Oxygen version)			
F	Data log: measured values are stored in internal memory (standard with CO)			
1	On / Off function, in case the detector is not used it can be switched off			

ACCESSOIRES			
OPTION		PART NO.	DESCRIPTION
Gas Test-station		Full automatic test station for the <b>ECOTOX</b>	
		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, I 00 ppm CO in air.
	Tables Carr Say	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	ЕСОТОХ				
Life time	24 Months (at 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 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 IICT4 Gb IECEx Ex ia IICT4 Gb				
Manufacturer	Consilium Safety Netherlands B.V.				







