



PORTABLE GAS DETECTOR ECOTOX PLUS

ART.NR. 1224000-1224020

DETECTION OF TOXIC GASES, OXYGEN AND HYDROGEN

GENERAL INFORMATION

- Detection of toxic gases and oxygen
- ATEX / IECEx certified
- Compact and light weight
- Dual alarm function
- Graphic display for direct read out

The **ECOTOXPLUS** is a compact and extremely reliable single-gas detector. The **ECOTOXPLUS** with its robust construction is designed for harsh conditions such as refineries and the chemical industry. The very simple one-button operation offers optimal user convenience. The single control button switches the detector on and off and offers the possibility to easily perform a ZERO and SPAN calibration. The **ECOTOXPLUS** has an extra long lifetime as the sensor and the battery can be replaced after their life span. The Ecotox plus is available for various types of gas such as O₂, H₂S, CO, Cl₂, ClO₂, HCl, HCN.

Every type of **ECOTOXPLUS** has a clearly identifiable colour coding on the front label, making it easy for a user to recognize whether the right type of gas detector is being used.

The **ECOTOXPLUS** offers the ultimate safety through accurate gas measurement. The clear graphic display continuously displays the current measured value (in ppb, ppm or Vol.%) and in the event of a dangerous situation the user is immediately alerted by the dual alarm functions (LED/Acoustic). The graphic display shows which alarm situation has occurred (LOW alarm, HIGH alarm, TWA alarm or STEL alarm).

In addition, the graphical display shows various additional information, such as the length of time until the next calibration, status of the last calibration, currently measured STEL and TWA values, serial number

and unique features can be programmed (3x12 characters) such as user name, location, department or company name

Optionally, a **GAS TESTSTATION** is available with which a bump test can be performed every day. The **GAS TESTSTATION** performs a complete bump test in about 15 ~ 30 seconds. During the test the operation and functionality of the **ECOTOXPLUS** detector is checked by using test gas. A test is quick and easy to perform. During the test, the test station indicates which function is being checked and whether it has passed correctly.

APPLICATIONS:

- + Chemical Industry
- + Refineries
- + Water Industry
- + Enclosed and void spaced
- + Steel Industry
- + Laboratories / Universities
- + Government and Utilities
- + Food Industry

WE OFFER MORE THAN A PRODUCT!



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

ORDERING INFORMATION

PORTABLE GAS DETECTOR

TYPE	GAS	RANGE	PART NO.	LOW ALARM	HIGH ALARM	OPERATING TEMP.	HUMIDITY (N.C.)
ECOTOX _{PLUS} H ₂ S	Hydrogen Sulphide	0 – 20 ppm	I224000	1,6	2,4	-20 tot +50 °C	15-90%
ECOTOX _{PLUS} H ₂ S	Hydrogen Sulphide	0 – 100 ppm	I224001	10	15	-20 tot +50 °C	15-90%
ECOTOX _{PLUS} O ₂	Oxygen	0 – 25 Vol%	I224003	19,5	22,5	-20 tot +55 °C	5-95%
ECOTOX _{PLUS} CO	Carbon Monoxide	0 – 500 ppm	I224002	20	100	-20 tot +50 °C	15-90%
EOTOX _{PLUS} Cl ₂	Chlorine	0 – 5 ppm	I224004	0,5	1	-20 tot +40 °C	15-90%
EOTOX _{PLUS} ClO ₂	Chlorine dioxide	0 – 1.00 ppm	I224005	0,1	0,2	-20 tot +40 °C	15-90%
EOTOX _{PLUS} COCl ₂	Phosgene	0 – 1.00 ppm	I224006	0,1	0,2	-20 tot +40 °C	15-90%
ECOTOX _{PLUS} HCN	Hydrogen cyanide	0 – 30 ppm	I224011	0,9	9	-20 tot +40 °C	15-90%
ECOTOX _{PLUS} HCl	Hydrogen chloride	0 – 20 ppm	I224012	1	5	-20 tot +40 °C	15-90%
ECOTOX _{PLUS} NH ₃	Ammonia	0 – 100 ppm	I224016	20	40	-20 tot +40 °C	15-90%
ECOTOX _{PLUS} PH ₃	Phosphine	0 – 5ppm	I224018	0,5	1	-20 tot +50 °C	15-90%
ECOTOX _{PLUS} SO ₂	Sulphur dioxide	0 – 10 ppm	I224019	2	4	-20 tot +50 °C	15-90%
ECOTOX _{PLUS} H ₂	Hydrogen	0 – 1000 ppm	I224009	400	800	-20 tot +40 °C	15-90%

ACCESSORIES

OPTION	IMAGE	PART NO.	DESCRIPTION
GasTest-station		I225811	Full automatic test and calibration of the ECOTOX _{PLUS}
Calibratie adapter		I225114	Flow / calibration adapter for the ECOTOX _{PLUS}

SPARE PARTS

TYPE	PART NO.	DESCRIPTION
Sensor filter*	I224100	Spare filter; sensor protection
Lithium battery 3,6 volt	I225616	ATEX/IECEx certified battery for the ECOTOX _{PLUS}
Crocodile clip	I225603	Stainless Steel crocodile clip
Spare sensor H ₂ S	I215350	H ₂ S sensor; 20 / 100 ppm
Spare sensor O ₂	I215352	O ₂ sensor; 0-25 Vol.%
Spare sensor CO	I215354	CO sensor; 0-500 ppm
Spare sensor Cl ₂	I215357	Cl ₂ sensor; 0-5 ppm
Spare sensor ClO ₂	I215344	ClO ₂ sensor; 0-1 ppm
Spare sensor COCl ₂	I215377	COCl ₂ sensor; 0-1 ppm
Spare sensor HCN	I215345	HCN sensor; 0-30 ppm
Spare sensor HCl	I215341	HCl sensor; 0-20 ppm
Spare sensor NH ₃	I215351	NH ₃ sensor; 0-100 ppm
Spare sensor PH ₃	I215388	PH ₃ sensor; 0-5 ppm
Spare sensor SO ₂	I215358	SO ₂ sensor; 0-10 ppm
Spare sensor H ₂	I215356	H ₂ sensor; 0-1000 ppm

* Filter only for: H₂S, O₂, CO, NH₃, SO₂, H₂

TEST GASES AND ACCESSORIES		
TYPE	PART NO.	DESCRIPTION
BUGAS, 100 Vol.% N ₂	9990524	Nitrogen, 100 Vol.%, 110 gas liters
BUGAS, 20,9% O ₂ / N ₂	9990537	Synthetic air, 20,9% O ₂ / 79% N ₂ , 110 gas liters
BUGAS, 23,5% O ₂ / N ₂	9990564	Synthetic air, 23,5% O ₂ in N ₂ , 110 gas liters
BUGAS, 50 ppm CO	9990505	Carbon monoxide, 50 ppm in air, 110 gas liters
BUGAS, 10 ppm H ₂ S	9990540	Hydrogen sulfide, 10 ppm in air, 58 gas liters
BUGAS, 5 ppm Cl ₂	9990503	Dichloor, 5 ppm in nitrogen, 58 gas liters
BUGAS, 25 ppm H ₂ S	9990507	Hydrogen sulfide, 25 ppm in air, 58 gas liters
BUGAS, 5 ppm HCN	9990529	Hydrogen cyanide, 5 ppm in air, 58 gas liters
BUGAS, 25ppm NH ₃	9990510	Ammonia, 25 ppm in air, 58 gas liters
BUGAS, 0,5 ppm PH ₃	9990526	Phosphine, 0,5 ppm in Nitrogen, 58 gasliters
BUGAS, 10 ppm SO ₂	9990515	Sulphur dioxide, 10 ppm in air, 110 gasliters
Gas hose	1225819	Flexible gas hose, Ø 4x6mm, suitable for non corrosive gasses 1 meter.
Gas hose	1910204	Flexibele gas hose, Ø 4x6mm, suitable for corrosive gasses 1 meter.
Flow regulator brass	9990600	Flow regulator Chrome / brass nickleplated (applicable for 58/110 gas liters), fixed flow 0,5 l/min
Flow regulator SS	9990601	Fixed Flow regulator SS (applicable for 58/110 gas liters), fixed flow 0,5 l/min

Consilium offers a wide range of test gases, if the required test gas is not listed, please contact us.

SPECIFICATIONS

PRODUCT	ECOTOX PLUS
Gas types	Toxic gasses, Oxygen and Hydrogen
Sensor type	Electrochemical sensor (EC-sensors)
Display	Graphic LCD (Liquid Crystal Display)
Battery	Replaceable Lithium-Thionyl Chloride (Li-SOCl ₂) cell, type 3.6V (not rechargeable)
Battery lifetime	> 6 Months
Alarm function	Visual, 2 clear LED's and acoustic (> 90 dB/30cm)
Alarm types	LOW alarm, HIGH alarm, Overload alarm, TWA alarm & STEL alarm
Self-test	During start-up and operation
Calibration	Manual; one button operation or by use of the GASTESTSTATION*
Personal Identification	3x12 characters
Operating temperature	See ordering information
Storage temperature	0° to +20°C
Relative humidity	See ordering information
Pressure	Toxic: Atmospheric \pm 10%, Oxygen: 80 to 120 kPa
Housing	ABS/PC with Stainless Steel-fibres / EMI-shielding
Carrying clip	Crocodile carrying clip, Stainless Steel
Dimensions	82 x 56 x 42 mm (H x W x D, excl. carrying clip)
Weight	Approximately 110 gram (incl. carrying clip)
CE marking	ATEX (Directive 2014/34/EU) Radio Equipment Directive (Directive 2014/53/EU)
Approvals	ATEX II 2 G Ex ia IIC T4 Gb IECEX Ex ia IIC T4 Gb (Tamb -20° tot +60°C)
Manufacturer	Consilium Safety Netherlands B.V.

* Calibration with the Gastest station is not suitable for all gas types

