



Alphasense Ltd

Compliance Statements and Certificates

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The Restriction of the Use of Certain Hazardous Substances (RoHS)

On June 4th 2015, following the revised RoHS Directive (RoHS 2), the European Commission announced that 4 phthalate esters (DEHP, BBP, DBP and DIBP) had been newly added to the restricted substance list. From July 22nd 2019, the above 4 plus the current 6 substances (lead, mercury, cadmium, hexavalent chromium, PBB and PBDE), will be restricted as hazardous chemical substances, with some exemptions.

Substance	MCV (by weight)
Lead	0.1%
Mercury	0.1%
Cadmium	0.01%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls (PBB)	0.1%

Substance	MCV (by weight)
Polybrominated Diphenyl ethers (PBDE)	0.1%
Bis (2-Ethylhexyl) phthalate (DEHP)	0.1%
Benzyl butyl phthalate (BBP)	0.1%
Dibutyl phthalate (DBP)	0.1%
Diisobutyl phthalate (DIBP)	0.1%

Note: The Compliance deadline for Category 9 (Control and Monitoring Equipment) products for RoHS 3 phthalate restriction is July 22, 2021.

This statement certifies that Alphasense products, listed below, do not contain the restricted substances (unless an exemption applies **), in excess of the Maximum Concentration Value (MCV) as outlined in the directive RoHS 2015/863/EU (RoHS 3) in force June 4th 2015.

Product Description	Product Code ^(*)	Product Name ^(*)
Oxygen Sensor	000-00O2-xx (**) 000-LFO2-xx	O2-xx (**) LFO2-A4
Carbon Monoxide Sensor	000-00CO-xx	CO-xx
Hydrogen Sulfide Sensor	000-0H2S-xx 000-DH2S-xx	H2S-xx
Nitric Oxide Sensor	000-00NO-xx	NO-xx
Nitrogen Dioxide Sensor	000-0NO2-xx	NO2-xx
Sulfur Dioxide Sensor	000-0SO2-xx 000-DSO2-xx	SO2-xx
Ozone Sensor	000-00OX-xx	OX-xx
Chlorine Sensor	000-0CL2-xx	CL2-xx
Hydrogen Chloride Sensor	000-0HCL-xx	HCL-xx
Hydrogen Cyanide Sensor	000-0HCN-xx	HCN-xx
Hydrogen Peroxide Sensor	000-H2O2-xx	H2O2-xx
Ammonia Sensor	000-0NH3-xx	NH3-xx
Hydrogen Sensor	000-00H2-xx	H2-xx
Ethylene Oxide Sensor	000-0ETO-xx	ETO-xx
Phosphine Sensor	000-0PH3-xx	PH3-xx
PID Sensors	000-0022-xx	PID-xx
PID Stack Removal Tool	001-0020-xx	PID-RT
PID Lamp Spring	001-0023-xx	PID-SP
PID Lamp Cleaning Kit	001-0024-xx	PID-CK
PID Lamps	001-0019-xx	n/a

Product Description	Product Code ^(*)	Product Name ^(*)
PID Lamps	001-0030-xx	n/a
PID Stacks	001-0018-xx	n/a
Dual CO/H2S Sensor	000-4010-xx	D2 COH-A2
Dual SO2/H2S Sensor	000-4026-xx	SOH-xx
NDIR Sensor	000-0IRC-xx 000-N009-xx	IRC-xx
Pellistor Sensor	000-CHxx-xx	CH-xx
Optical Particle Counter	000-0OPC-xx	OPC-xx
OPC SPI - USB Converter	000-0SPI-xx	SPI-xx
4-Electrode AFE board	810-00xx-xx	n/a
4-Electrode ISB	000-0ISB-xx	n/a
Smart AFE	000-SMRT-xx	n/a
IDC Cables	000-CBLE-xx	n/a
Gas Hoods	000-GSHD-xx	n/a
Transmitter PCB	000-0420-xx	n/a
NDIR Evaluation Board	001-0027-00	TP-CO2-EV
USB Link & software	001-0035-00	n/a
Tubing	000-TUBE-xx	n/a
H2S Filter	000-PELF-xx	n/a
Carbon cloth disc	029-0048-xx	n/a
Lead Acetate Filter	010-0288-xx	n/a

(*) "xx" corresponds to between 2 and 4 alphanumeric values.

(**) **Exemption: Sensors contain lead which is exempt under Code 1b (Lead Anodes in Electrochemical Oxygen Sensors) of Annex IV, section Sensors, Detectors and Electrodes.**

Richard Lane
Manufacturing and Quality Controller
Alphasense Ltd, Great Notley, Essex. CM77 7AA

Waste Electrical and Electronic Equipment (WEEE)

European Directive Regulation (EC) No. 2002/96/EC

The Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 became law in the UK on the 1st of January 2014 and replaced the 2006 Regulations. The new Regulations transpose the main provisions of Directive 2012/19/EU on WEEE that recasts the previous Directive 2002/96/EC. Any products supplied by Alphasense Ltd, which are covered under the WEEE Directive, shall be marked with the symbol below.



This symbol on the product or its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste for recycling, please contact your Local Authority.

Richard Lane
Manufacturing and Quality Controller
Alphasense Ltd, Great Notley, Essex. CM77 7AA

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

European Directive Regulation (EC) No. 1907/200

The European Union's REACH Directive (EC 1907/2006) imposes requirements for the Registration, Evaluation and Authorisation of Chemical substances for products sold in EU countries. The purpose of these regulations is to control the use of chemicals within the EU, including the importing of chemicals from outside of the EU, to improve human and environmental protection.

The regulations place requirements on companies to register substances they manufacture or import depending on the weight of material and level of hazard associated with that material. Materials or Substances of Very High Concern (SVHC) are listed on the "Candidate List" of the European Chemical Hazard Agency (ECHA).

The Alphasense products are classed as "Articles", without intended release of a chemical substance. Therefore, they are not subject to the pre-registration or registration process, according to REACH. However, any supplier of an Article containing a SVHC, listed on the "Candidate List", in a concentration above 0.1%w/w shall provide the recipient of the Article with information to allow safe use of the Article, including the name of that substance as a minimum.

Alphasense continue to monitor whether any of the Substances of Very High Concern (SVHC) on the "Candidate List" are present in the products we supply and, if so, their concentrations. To date we have identified that the following sensors do contain a chemical included on the "Candidate List" in a concentration greater than 0.1%w/w.

Product Code	Product Name	Chemical Name	CAS Number	EC Number	Date Included on Candidate List
000-00O2-xx	O2-xx	Lead	7439-92-1	231-100-4	27-Jun-2018

Notes:

"xx" corresponds to between 2 and 4 alphanumeric values.

Lead is not present in the LFO2-xx range of oxygen sensors.

Alphasense Ltd will continue to monitor its position regarding these regulations and update documentation when required to ensure continued compliance with the REACH regulation.

Richard Lane
Manufacturing and Quality Controller
Alphasense Ltd, Great Notley, Essex. CM77 7AA

California Proposition 65 Statement

In 1986, California voters approved an initiative to address their growing concerns about exposure to toxic chemicals. That initiative became the Safe Drinking Water and Toxic Enforcement Act of 1986, better known by its original name of Proposition 65. Proposition 65 requires the State to publish a list of chemicals known to cause cancer or birth defects or other reproductive harm. This list, which must be updated at least once a year, has grown significantly since it was first published in 1987.

Proposition 65 requires businesses to notify Californians about significant amounts of chemicals in the products they purchase, in their homes or workplaces, or that are released into the environment. By providing this information, Proposition 65 enables Californians to make informed decisions about protecting themselves from exposure to these chemicals. Proposition 65 also prohibits California businesses from knowingly discharging significant amounts of listed chemicals into sources of drinking water.

Alphasense continue to monitor whether any of the chemicals listed under Proposition 65 are present in the products we supply and, if so, their concentrations. To date we have identified that only the following products do contain a lead above the safe harbor level, however, is not intentionally released during use.

Product Code	Product Name	Chemical Name	CAS Number	EC Number
000-00O2-xx	O2-xx	Lead	7439-92-1	231-100-4

Notes:

"xx" corresponds to between 2 and 4 alphanumeric values.

Lead is not present in the LFO2-xx range of oxygen sensors.

This product **must not** be disposed of in household waste. Instead, it is your responsibility to dispose of your waste sensors by handing it over to a designated collection point for correct disposal, or returned to the manufacturer for correct disposal.

Alphasense Ltd will continue to monitor its position regarding these regulations and update documentation when required to ensure continued compliance with the regulation.

Richard Lane
Manufacturing and Quality Controller
Alphasense Ltd, Great Notley, Essex. CM77 7AA

ISO-9001 Certificate

Certificate of Registration



This is to certify that the Quality Management System of:

Alphasense Ltd

Sensor Technology House, 300 Avenue West, Skyline 120, Great Notley, Essex, CM77 7AA, United Kingdom

applicable to:

The Design, Manufacture, Sales and Distribution of Gas, Chemical and Participate Sensors to the Industrial and Domestic Global Markets

has been assessed and registered by NQA against the provisions of:

ISO 9001:2015

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA

Managing Director

Certificate No.
ISO Approval Date:
Reissued:
Valid Until:
EAC Code:

IMS-2090
8 June 2001
2 May 2019
30 June 2022
19, 29



The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 015 held by NQA. NQA is a trading name of NQA Certification Limited, Registration No. 09351758. Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable Bedfordshire LU5 5ZX, United Kingdom. This certificate is the property of NQA and must be returned on request.

ATEX Quality Assurance Notification (QAN)



1 PRODUCTION/PRODUCT QUALITY ASSURANCE NOTIFICATION

2 Equipment and protective systems intended for use in potentially explosive atmospheres Directive 2014/34/EU

Conformity to Type based on Quality Assurance of the Production Process/Product Quality Assurance

3 Notification No. **SIRA 10 ATEX M479**

4 Equipment, protective system or components as listed:

Gas Detection and Measurement Equipment Flameproof (d)

5 Manufacturer or
Authorised Representative:

Alphasense Limited
Sensor Technology House
300 Avenue West
Skyline 120
Great Notley
Essex CM77 7AA

6 Manufacturing locations: As above

7 CSA Group Netherlands B.V., notified body number 2813 in accordance with in accordance with Article 17 of the Council Directive 2014/34/EU, notifies that the manufacturer has a quality system which complies with the requirements of Annexes IV & VII of Directive 2014/34/EU.

8 This notification is based upon Report No. 80011684 issued on 10 December 2019. This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annexes IV/VII. Results of periodical assessment of the quality system form part of this notification.

9 According to Article 16 [3] of Directive 2014/34/EU the CE marking shall be followed by the identification number 2813 of CSA Group Netherlands B.V., as the Notified Body involved in the production control stage.

Date of Initial Certification: 06 December 2010
Date of Issue: 24 December 2019
Date of Expiry: 26 October 2022

James May

On behalf of CSA

Notification No. **SIRA 10 ATEX M479**

This certificate remains valid subject to the company maintaining its system to the required standards, which will be monitored by CSA.
The use of this Certificate and the CSA Certification Mark are subject to the Regulations Applicable to Holders of CSA Certificates

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, Netherlands

DQD507.24 Issue Date: 2019-10-30

IECEX Quality Assessment Report (QAR)



IECEX Quality Assessment Report Summary

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEX Scheme visit www.iecex.com

QAR Ref. No.: **GB/SIR/QAR10.0031/06** Page 1 of 1

QAR Free Ref. No.: **80011684** Status: **Issued**

Details of change: **Recertification Audit** Date of issue: **2019-12-24**

Site(s) audited: **Alphasense Limited** Valid until: **2022-10-26**
Sensor Technology House
300 Avenue West
Skyline 120
Great Notely, Essex CM77 7AA
United Kingdom Audit date: **2019-12-10**

Issuing ExCB: **SIR - SIRA Certification Service**

Manufacturer: **Alphasense Limited**
Sensor Technology House
300 Avenue West
Skyline 120
Great Notely, Essex CM77 7AA

Location of Manufacturer: **United Kingdom**

Product information: **Flameproof Gas Detectors**

Protection concept: **Ex d**

Related QARs:

[GB/SIR/QAR10.0031/00](#) [GB/SIR/QAR10.0031/01](#) [GB/SIR/QAR10.0031/02](#)
[GB/SIR/QAR10.0031/03](#) [GB/SIR/QAR10.0031/04](#) [GB/SIR/QAR10.0031/05](#)

Related Certificates **IECEX SIR 07.0031X**
(manual insertion): **IECEX ULD 06.0019X**

Related Certificates
(automatic linking):

Related Certificates for
previous versions:

[IECEX SIR 07.0031X issue: 2](#) [IECEX ULD 06.0019X issue: 1](#)

Comments: