



# Alphasense Ltd

## Compliance Statements and Certificates

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

In 2006, the European Union passed the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive into law. Effective July 2006, the RoHS Directive (2002/95/EC) banned the sale of all new electrical and electronic equipment that contains more than designated maximum allowable levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants. In May 2011, an updated RoHS2 directive (2011/65/EU) added new categories to the list of affected end products, but the list of restricted substances and permitted levels was not changed. The Maximum Control Values (MCV), as stated in the RoHS directive are as follows:

Substance	MCV (by weight)
Lead	0.1%
Mercury	0.1%
Cadmium	0.01%

Substance	MCV (by weight)
Hexavalent Chromium	0.1%
Polybrominated Biphenyls (PBB)	0.1%
Polybrominated Diphenyl ethers (PBDE)	0.1%

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

We declare that information provided in the table below are true and complete to the best of our knowledge and that the articles we provide are compliant to restrictions on substances listed in Article 4 of DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (ROHS recast).

Product Description	Product Code <sup>(*)</sup>	Product Name <sup>(*)</sup>
Oxygen Sensor	000-00O2-xx <sup>(**)</sup> 000-LFO2-xx	O2-xx <sup>(**)</sup> 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
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 001-0030-xx	n/a

Product Description	Product Code <sup>(*)</sup>	Product Name <sup>(*)</sup>
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.

(\*\*) 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**

**Signed for and on behalf of: 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*  
*Signed for and on behalf of: 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
000-0002-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  
Signed for and on behalf of: 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 and Shall Include all of the Clauses of ISO 9001:2015

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.	IMS-2090
ISO Approval Date:	8 June 2001
Reissued:	9 August 2018
Valid Until:	30 June 2019
EAC Code:	19



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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. 05351758. Registered Office: Warsick House, Houghton Hall Park, Houghton Regis, Dunstable Bedfordshire LU5 5DQ, United Kingdom. This certificate is the property of NQA and must be returned on request.

# ATEX Quality Assurance Notification (QAN)



## 1 PRODUCTION QUALITY ASSURANCE NOTIFICATION

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

3 Notification No. SIRA 10 ATEX M479

4 Equipment, protective system or components as listed:

Gas Detection and Measurement Equipment

Flameproof (d)

5 Applicant **Alphasense Limited**

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

6 Manufacturer As above

7 Sira Certification Service, Notified Body No. 0518 for Annexes IV & VII in accordance with Article 9 of the Council Directive 2014/34/EU of 20 April 2016, notifies to the applicant that the manufacturer has a quality system which complies with the requirements of Annexes IV & VII of Directive 2014/34/EU and EN ISO/IEC 80079-34.

8 This notification is based upon Sira Report No. 70069214 issued on 10 August 2016. 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 10 [1] of Directive 2014/34/EU the CE marking shall be followed by the identification number 0518 of Sira Certification Service as the notified body involved in the production control stage.

Date of Initial Certification: 06 December 2010

Date of Issue: 10 April 2017

Date of Expiry: 26 October 2019

On behalf of SCS



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 SCS. The use of this Certificate and the Sira Certification Mark are subject to the Regulations Applicable to Holders of Sira Certificates

Sira Certification Service – Unit 6, Hawarden Industrial Park, Hawarden, Deeside, CH5 3US

# IECEX Quality Assessment Report (QAR)

IECEX Quality Assessment Report: GB/SIR/QAR10.0031/04 details													
<b>QAR :</b>													
QAR Reference Number*: (automatic numbering)	GB/SIR/QAR10.0031/04												
Related QARs:	<a href="#">GB/SIR/QAR10.0031/03</a> <a href="#">GB/SIR/QAR10.0031/02</a> <a href="#">GB/SIR/QAR10.0031/01</a> <a href="#">GB/SIR/QAR10.0031/00</a>												
Status*:	Issued												
QAR Free Reference Number*:	70069214												
Audit Date*: (yyyy-mm-dd)	2016-08-10												
Date of Issue*: (yyyy-mm-dd)	2017-04-10												
Details of change*:	Surveillance Audit												
Valid until*: (yyyy-mm-dd)	2019-10-26												
Site(s) audited*:	Alphasense Limited Sensor Technology House 300 Avenue West Skyline 120 Great Notely, Essex CM77 7AA												
Issuing ExCB*:	SIR - SIRA Certification Service												
Manufacturer*:	Alphasense Limited Sensor Technology House 300 Avenue West Skyline 120 Great Notely, Essex CM77 7AA												
Country of Manufacture*:	United Kingdom												
Product information*:	Flameproof Gas Detectors												
Protection concept*:	Ex d												
Related IECEX Certificates: (automatic linking)													
Related Certificates: (manual insertion)	IECEX SIR 07.0031X IECEX ULD 06.0019X												
Related IECEX Certificates for previous versions:													
	<table border="1"> <thead> <tr> <th>ExCB</th> <th>CoC and Status</th> <th>Totals</th> </tr> </thead> <tbody> <tr> <td> SIR</td> <td><a href="#">IECEX SIR 07.0031X issue: 2 [Current]</a></td> <td>1</td> </tr> <tr> <td> ULD</td> <td><a href="#">IECEX ULD 06.0019X issue: 1 [Cancelled]</a></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>2</td> </tr> </tbody> </table>	ExCB	CoC and Status	Totals	SIR	<a href="#">IECEX SIR 07.0031X issue: 2 [Current]</a>	1	ULD	<a href="#">IECEX ULD 06.0019X issue: 1 [Cancelled]</a>	1			2
ExCB	CoC and Status	Totals											
SIR	<a href="#">IECEX SIR 07.0031X issue: 2 [Current]</a>	1											
ULD	<a href="#">IECEX ULD 06.0019X issue: 1 [Cancelled]</a>	1											
		2											
Comment:													
Attachment:													