



IECEx Certificate of Conformity

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

Certificate No.: IECEx BAS 14.0069 issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2014-07-24** Page 1 of 3

Applicant: **OptoSci Limited**
9 Cambuslang Road
Glasgow
G32 8NB
United Kingdom

Electrical Apparatus: **OptoSniff**
Optional accessory:

Type of Protection: **Optical Radiation "op is"**

Marking: **Sensor:**
Ex op is I Ma (-10°C ≤Ta ≤+60°C)
Ex op is IIC T4 Ga (-10°C ≤Ta ≤+60°C)
Transmitter:
[Ex op is I Ma] (0°C ≤Ta ≤+40°C)
[Ex op is IIC T4 Ga] (0°C ≤Ta ≤+40°C)

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: General Manager

Signature:
(for printed version)



Date:

24 July 2014

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **OptoSci Limited**
9 Cambuslang Road
Glasgow
G32 8NB
United Kingdom

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-28 : 2006-08 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition: 1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR14.0141/00

Quality Assessment Report:

GB/BAS/QAR14.0009/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The OptoSniff® instrument, is a fixed multipoint gas monitoring system, utilising tuneable diode laser spectroscopy (TDLS), and is designed to monitor gas concentration levels of flammable gas in hazardous areas.

The equipment comprises a laser source mounted in a 19" rack system with control electronics, located in the non-hazardous area. The optical signal from the laser source is passed through optical components, such as an optical splitter and fan-out tray before being passed down optical fibre cable into the hazardous area; optical component selection is dependent on the number of sensors for a network. Once in the hazardous area, the optical signal may pass through further optical only components, before finally connecting to an open path optical sensor comprising an inert element with an air gap between the source fibre optical cable and the receiver fibre optical cable. There are two types of optical sensor covered by this certification; the Industrial Sensor and the Armadillo Sensor.

There are no electrical components or connections to the equipment located in the hazardous area.

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.