



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 09.0100X issue No.:4

Status: **Current**

Date of Issue: 2016-02-17 Page 1 of 4

Certificate history:
Issue No. 4 (2016-2-17)
Issue No. 3 (2015-7-24)
Issue No. 2 (2014-9-9)
Issue No. 1 (2011-2-23)
Issue No. 0 (2009-11-23)

Applicant: **Honeywell Analytics Ltd**
Hatch Pond House
4 Stinsford Road
Nuffield Estate
Poole
Dorset
BH17 0RZ
United Kingdom

Electrical Apparatus: **SEARCHLINE Excel - Infrared Gas Detector, Transmitter and Receiver Units**
Optional accessory:

Type of Protection: **Ex 'd' – Flameproof, Ex 'op is' – Inherently safe optical radiation**


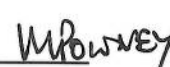
Marking: Transmitter
Ex db op is IIC T6 Gb (Tamb =-40°C to +40°C) or
Ex db op is IIC T5 Gb (Tamb =-40°C to +65°C)

Receiver
Ex db IIC T6 Gb (Tamb =-40°C to +40°C) or
Ex db IIC T5 Gb (Tamb =-40°C to +65°C)

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

Position: Technical Manager

Signature:
(for printed version)


17/2/16 

Date:

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](http://www.iecex.com).

Certificate issued by:

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





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Certificate No.: IECEx BAS 09.0100X

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Issue No.: 4

Page 2 of 4

Manufacturer: **Honeywell Analytics Ltd**
Hatch Pond House
4 Stinsford Road
Nuffield Estate
Poole
Dorset
BH17 0RZ
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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition: 2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*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/ExTR09.0143/00
GB/BAS/ExTR15.0327/00

GB/BAS/ExTR11.0031/00

GB/BAS/ExTR14.0220/00

Quality Assessment Report:

GB/SIR/QAR11.0027/03



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Certificate No.: IECEx BAS 09.0100X

Date of Issue: 2016-02-17

Issue No.: 4

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The SEARCHLINE Excel Infrared Gas Detector, Transmitter & Receiver Units are rated at 24Vd.c (operate from 18V to 32V) with a maximum power dissipation of 10 watts.

Both units comprise a cylindrical enclosure manufactured in stainless steel with a mounting lug cast onto the side. The enclosure cover includes a toughened glass window and an optional integral weather cowl or mounting lugs. The cover is secured by 2 off socket head cap screws of grade 12.9 high tensile steel or grade A2-80/A4-80 stainless steel.

The rear section incorporates integral connection cables and a female thread for connection to suitable terminal facilities via conduit or similar means. The interior of the enclosure may be in the form of a transmitter or receiver unit dependant on the internal component configuration.

The transmitter unit contains an optical assembly, including an infrared emitting device, and several printed circuit boards. A window heater is affixed to the internal window surface.

The receiver unit contains an optical block assembly, a window heater and several printed circuit boards.

Internal earthing is by means of the supply cable and external earth connection facilities are provided adjacent to the cable entry.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility.
2. The cover fixing screws shall be a minimum grade of A2-80/A4-80 stainless steel, or 12.9 high tensile steel.



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Certificate No.: IECEx BAS 09.0100X

Date of Issue: 2016-02-17

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Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 4.1

To confirm the SEARCHLINE Excel - Infrared gas detector, transmitter and receiver units comply with the latest editions of the following standards:

IEC 60079-0:2011 Edition 6 IEC 60079-1:2014 Edition 7 IEC 60079-28:2015 Edition 2

This includes a change in marking as detailed below:

Transmitter

Ex db op is IIC T6 Gb (Tamb =-40°C to +40°C) or
Ex db op is IIC T5 Gb (Tamb =-40°C to +65°C)

Receiver

Ex db IIC T6 Gb (Tamb =-40°C to +40°C) or
Ex db IIC T5 Gb (Tamb =-40°C to +65°C)

Variation 4.2

To allow a change to the 'O' Ring material used for the weatherproof seal, together with additional dimensions added and the removal of the optional Viton material.

Variation 4.3

To allow minor updates to the drawings

ExTR: GB/BAS/ExTR15.0327/00

File Reference: 15/0603