



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 ULD 18.0016X

Issue No: 0

Certificate history:

Issue No. 0 (2018-10-29)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-10-29**

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

Equipment: **Ultrasonic Gas Leak Detector, Searchzone Sonik**

Optional accessory:

Type of Protection: **Flameproof "db", Intrinsic safety "ia", Increased safety "eb", Dust Protection by Enclosure "tb"**

Marking:

Ex db ia IIC T4 Gb

Ex db eb ia IIC T4 Gb

Ex tb IIIC T 100°C Db

$-55^{\circ}\text{C} \leq T_{\text{amb}} \leq 75^{\circ}\text{C}$

*Approved for issue on behalf of the IECEx
Certification Body:*

David Lloyd

Position:

Engineering Leader

*Signature:
(for printed version)*

Date:

2018-10-29

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:

UL International DEMKO A/S
Borupvang 5A,
DK-2750 Ballerup
Denmark





IECEX Certificate of Conformity

Certificate No: IECEX ULD 18.0016X Issue No: 0

Date of Issue: **2018-10-29** Page 2 of 3

Manufacturer: **Honeywell Analytics Limited**
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 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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

[DK/ULD/ExTR18.0017/00](#)

Quality Assessment Report:

[GB/SIR/QAR11.0027/05](#)



IECEX Certificate of Conformity

Certificate No: IECEx ULD 18.0016X

Issue No: 0

Date of Issue: 2018-10-29

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Searchzone Sonik has been assessed as dust protected, flameproof, increased safety and intrinsically safe.

The wiring enclosure contains Increased safety terminals and has been assessed as increased safety, flameproof and dust protected. Integral threaded entries in the wiring enclosure allow field wiring of the equipment

The main enclosure contains IS and non-IS electronics and has been assessed as flameproof and dust protected. An antenna protrudes from the main enclosure for Bluetooth connectivity and is protected by Ex ia blocking capacitors.

The front housing contains IS electronics and has been assessed as dust protected.

Internal and external earthing points are provided. Mounting the equipment is enabled by a proprietary Honeywell bracket, provided with the equipment.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Flamepaths are not to be repaired.
- The equipment shall be connected to circuits providing Overvoltage Category II or better according to IEC 60664-1.
- To minimize the risk of electrostatic charge, provisions shall be made for an adequate grounding of the equipment, including accessories (e.g. sunshade). Equipment shall be installed in a manner so that accidental discharge shall not occur.

Annex:

[Annex to IECEx ULD 18.0016X Issue 0.pdf](#)



IECEx Certificate of Conformity

Certificate No.: IECEx ULD 18.0016X

Issue No.: 0

Page 1 of 2

PARAMETERS RELATING TO THE SAFETY

Maximum input range: 18-32Vdc (24Vdc nominal).

Maximum input power: 3 W nominal, 18 W with heaters on.

Relay contact ratings: Max. 32 Vdc/ac (Ex eb only).

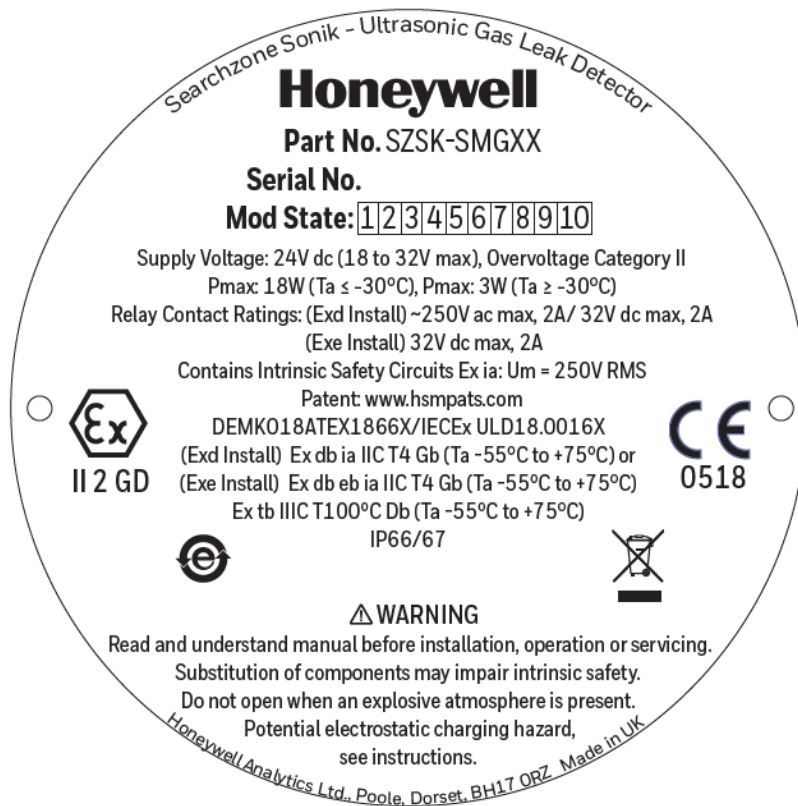
Max. 250Vac / 32Vdc (Ex db / Ex tb)

Max. 2 A resistive

Um : 250 Vrms

MARKING

Marking has to be readable and indelible; it has to include the following indications:





IECEX Certificate of Conformity

Certificate No.: IECEX ULD 18.0016X

Issue No.: 0

Page 2 of 2

ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

The manufacturer shall perform routine dielectric strength tests on the parts referenced at the voltages specified and maintain for at least 60 seconds as specified in IEC 60079-7 Clause 7.1 as shown below, alternatively, tests shall be carried out at 1,2 times the test voltage specified below and maintained for at least 100 ms. There shall be no breakdown of the insulation.

Voltage Applied Between	Test voltage (V)
All circuits to ground	500
All circuits to ground	1500
Relay 1 to 2	1500
Relay 1 to 3	1500
Relay 2 to 3	1500
4-20mA output to 18-32 Vdc input, 0V, RS485 +ve and -ve	1350
24Vdc, 0V, 4-20mA output, RS485 +ve and -ve to all relays	3000