



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 09.0096X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 4 Issue 3 (2014-06-10)
Date of Issue: 2019-01-30 Issue 2 (2013-01-30)
Issue 1 (2012-05-16)
Issue 0 (2009-08-14)
Applicant: **EX Innovations Limited Trading as Raxton**
Jepson Court
Tancred Close
Queensway, Royal Leamington Spa
Warwickshire CV31 3RZ
United Kingdom
Equipment: **Breather Drain Type CV**
Optional accessory:
Type of Protection: **Increased Safety and Dust**
Marking: Ex e I/II C Mb/Gb, Ex e IIC Gb,
Ex tb III C Db IP66, Ex tb III C Db IP66
Ta = -70 °C to 150 °C (Dependant on construction material and O-ring fitted, refer to Conditions of Certification)

Approved for issue on behalf of the IECEx
Certification Body:

R A Craig

Position:

Certification Support Officer

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Manufacturer: **EX Innovations Limited Trading as Raxton**
Unit 1
1 Kingsway South
Aldridge
Walsall WS9 8FS
United Kingdom

Additional
manufacturing
locations:

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 equipment 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 60079-0:2007-10](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5

[IEC 60079-7:2006-07](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

[IEC 61241-1:2004](#) Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition:1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/SIR/ExTR09.0123/00](#)
[GB/SIR/ExTR14.0136/00](#)

[GB/SIR/ExTR12.0107/00](#)

[GB/SIR/ExTR13.0009/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0014/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CV Breather Drain Plugs each comprise a hollow brass body that is threaded at one end to enable it to be fitted to the bottom of the associated 'Ex e' enclosure. The body contains a press-fitted sintered disc that allows moisture to pass out of the enclosure via two drain holes. These holes exit into the hexagonal socket which shrouds the drain holes and also provides a means of tightening the device.

The components are available with entry thread sizes between M16 and M32.

Design Options:

An alternative body profile with three drain holes, in sizes M25 and M32 only.

Alternative materials of manufacture:

Mild steel to BS 970:1983.

Stainless steel to BS 970:1983.

Glass filled nylon MDF2 900 (Not for Group I use).

Plating Options:

Nickel, Zink, Electroless.

Nickel maximum thickness 0.008mm.

Alternative threadforms in equivalent sizes:

Metric to ISO 965 PT 1 & 3.

PG to DIN 40430:1971.

BSPP to BS 2279:1985.

ET to BS 31:1979.

NPS to ANSI/ ASME B1.20.1 -1983

Any other threadform conforming to Table 3 f IEC 60079-1 and clauses C.2.2 & C.2.3.1 as applicable

SPECIFIC CONDITIONS OF USE: YES as shown below:

The limiting temperature ranges of these devices depends upon the their material of manufacture and the type of 'O' ring used in their construction as defined by the manufacturer, the user shall therefore install these devices in accordance with temperature values stated in the table below:

'O'-ring Material	Limiting temperature	Limiting temperature
	Brass, mild steel or stainless steel	Nylon MDF2 900
1. None	-50°C to +150°C	-50°C to +150°C
Nitrile	-20°C to +80°C	-20°C to +80°C
EPDM (fitted as standard)	-30°C to +125°C	-30°C to +125°C
Neoprene	-20°C to +100°C	-20°C to +100°C
Viton	-5°C to +150°C	-5°C to +150°C
Silicone	-30°C to +150°C	-30°C to +150°C
Fluorosilicone	-50°C to +150°C	-50°C to +150°C



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Equipment (continued):

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The CV Breather Drain Plugs that are constructed of Glass Filled Nylon MDF2 900 shall not be marked with any information that indicates that they are suitable for Group I use.
2. The manufacturer shall take all reasonable steps to ensure that the user can comply with the special conditions for safe use and shall advise the user in respect of the materials that are used in the construction of the devices.
3. Only Glass Filled Nylon type MDF2 900 shall be used in the manufacture of the non-metallic CV breather drains.
4. These products shall be marked in accordance with the information as specified in this certificate and related reports.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Re-issued to correct the QAR to the latest issue. As such there was no ExTR raised as this is a purely administrative exercise