



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 SIR 08.0024X	Issue No: 6	<u>Certificate history:</u> Issue No. 6 (2014-08-20) Issue No. 5 (2014-06-10) Issue No. 4 (2013-12-06) Issue No. 3 (2013-01-30) Issue No. 2 (2012-06-07) Issue No. 1 (2008-11-20) Issue No. 0 (2008-05-13)
Status:	Current	Page 1 of 5	
Date of Issue:	2014-08-20		
Applicant:	EX Innovations Ltd., Trading as Redapt Jepson Court Tancred Close Queensway Royal Leamington Spa Warwickshire CV31 3RZ United Kingdom		
Electrical Apparatus:	Breather / Drains		
<i>Optional accessory:</i>			
Type of Protection:	Ex e and dust		
Marking:	Ex e IIC Mb/Gb Ex tb IIC Db IP66 Ta = -70°C to 180°C (Dependant on construction material and O-ring fitted, refer to Conditions of Certification)	Ex e IIC Gb Ex tb IIC Db IP66	

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:
(for printed version)

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:



IECEx Certificate of Conformity

Certificate No: IECEx SIR 08.0024X

Issue No: 6

Date of Issue: 2014-08-20

Page 2 of 5

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom





IECEX Certificate of Conformity

Certificate No: IECEx SIR 08.0024X Issue No: 6

Date of Issue: 2014-08-20 Page 3 of 5

Manufacturer: **EX Innovations Ltd., Trading as Redapt**
Unit 1
1 Kingsway South
Aldridge
Walsall WS9 8FS
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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition:4	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:

GB/SIR/ExTR08.0057/00	GB/SIR/ExTR08.0147/01	GB/SIR/ExTR12.0082/00
GB/SIR/ExTR13.0323/00		

Quality Assessment Report:

GB/SIR/QAR06.0014/00	GB/SIR/QAR06.0014/01	GB/SIR/QAR06.0014/02
GB/SIR/QAR06.0014/03	GB/SIR/QAR06.0014/04	GB/SIR/QAR06.0014/05
GB/SIR/QAR06.0014/06		



IECEx Certificate of Conformity

Certificate No: IECEx SIR 08.0024X

Issue No: 6

Date of Issue: 2014-08-20

Page 4 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Breather/Drains are designed to allow moisture emission from Increased Safety Type 'Ex e' enclosures. Each device comprises a brass body with an M20, M25 or M32 entry thread. The body is machined such that a dust/moisture seal, manufactured from Hydrophilic Polyethylene or sintered bronze, can be pressed in place. Drainage channels through the body allow for the passage of moisture through the filter. The device may be screwed into the wall of an enclosure or into a through hole, being secured by a locknut.

Alternative materials of manufacture:

Groups I and II – Brass, mild steel or stainless steel

Group II only - Glass filled nylon (Durathon glass filled nylon BKV30) or aluminium

Alternative equivalent entry threads:

NPT, NPS BSPP, BSPT, Imperial Conduit, ET or Pg

O' ring seals:

'O' ring seals materials fitted into the Breather/Drain may be provided in Nitrile, Viton, EPDM, Neoprene, Silicone or Fluorosilicone

Surface coating: .

The products may additionally be metallic plated to suit the application.

CONDITIONS OF CERTIFICATION: YES as shown below:

Refer to the Annexe



IECEx Certificate of Conformity

Certificate No: IECEx SIR 08.0024X

Issue No: 6

Date of Issue: 2014-08-20

Page 5 of 5

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

Issue 1 - this Issue introduced the following changes:

- 1 The drain holes were re-positioned and re-sized as defined in the associated ExTR, in consequence, the special point for noting that specifies the wall thickness of the associated enclosure has been removed

Issue 2 – this Issue introduced the following change:

- 1 The applicant has advised us that their address has been changed from Units 46 & 47, Darlaston Central Trading Estate, Salisbury Street, Darlaston, West Midlands WS10 8XB to that currently shown.

Issue 3 – this Issue introduced the following change:

1. The recognition that the company name and address has changed from Redapt Ltd, Westgate, Aldridge, West Midlands WS9 8FS to EX Innovations Ltd., Trading as Redapt at Jepson Court, Tancred Close, Queensway, Royal Leamington Spa, Warwickshire CV31 3RZ.
- 2 The introduction of a Condition of Manufacture.

Issue 4 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge for dust requirements, the previously listed documents, IEC 61241-0:2006 and IEC 61241-0:2006 were replaced by IEC 60079-31:2008 , the marking was already in accordance with this latest standard.
2. GB/SIR/ExTR08.0147/00/00 was replaced by GB/SIR/ExTR08.0147/00/01.

Issue 5 – this Issue introduced the following change:

1. The certificate was changed from a Component 'U' certificate into an Equipment certificate at this variation.

Issue 6 – this Issue introduced the following change:

1. The Annexe was amended to correct typographical errors, this change is administrative and needed no assessment, therefore, an ExTR was not required.

Annex:

[IECEx SIR 08.0024X_Issue6_Annexe.pdf](#)