



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 02ATEX1129** Issue: **7**

4 Equipment: **Minipurge Interface Unit Type MIU/d**

5 Applicant: **Expo Technologies Limited**

6 Address: Unit 2, The Summit
Hanworth Road
Sunbury on Thames
Surrey TW16 5DB
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013

EN 60079-1:2014

EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

For Types dA, dX and dT



II 2 G D
Ex db IIC T* Gb
Ex tb IIIC T*°C Db
Ta = -20°C to +*°C

For Types dK and dN



II 2 G D
Ex db IIB + H₂ T* Gb
Ex tb IIIC T*°C Db
Ta = -20°C to +*°C

Breather drain installed



II 2 G D
Ex db IIB+H₂ T3 Gb
Ta = -20°C to +55°C

* The temperature markings are T6 and T80°C for an ambient temperature range of -20°C to +40°C or T5 and T95°C for an ambient temperature range of -20°C to +55°C

Project Number 1571

Signed: 

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



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13 DESCRIPTION OF EQUIPMENT

The Minipurge Interface Units comprise a flameproof enclosure with various internal equipment dependent upon the application. The enclosures used are either Expo dA, dX, dT, dK or dN depending upon the size or type required.

The range of enclosures have the same basic geometry but are of differing sizes. The enclosures are all essentially square in profile with a circular lid. The joint between the lid and the enclosure forms a threaded flamepath; the lid is secured by means of a locking device. There is an option to include bosses for the installation of internal apparatus. Mounting is by means of two or more tapped holes in the rear face or by the use of mounting pads. Two or more protruding mounting lugs are optional.

External earthing facilities comprise M4 (or larger) earth studs on the surface of the box or mounting pads; the studs are equipped with nuts, washers and anti-rotation lugs. Alternatively or additionally, external earthing may be provided at the mounting lug(s). Tapped holes in the earth lugs between anti-rotation ribs are optional.

Internal earthing is provided either by a tapped hole in the internal rear face or by means of conventional rail-mounted earth terminals secured to the internal rear face.

“O” ring seals may be used to enhance the ingress protection rating.

The enclosures may be manufactured from copper-free aluminium, grey iron, S.G. iron, phosphor bronze, gunmetal or stainless steel.

Cable entry facilities are provided on the sides and rear of the enclosure.

To allow the control of the internal equipment, linear feed through devices, Type C9L, may be utilised as required. These are installed in the areas designated for cable entry devices. The feed through device comprises a threaded barrel with a central shaft secured with circlips at each end. The device is secured in the wall (or rear) of the enclosure by means of a locknut and optional thread sealing washer. An optional external “O” ring seal around the shaft, outside the flamepath, can improve the IP rating. The feed through can be fitted with unspecified external operators, e.g. push-buttons.

The scope of this certificate covers a range of internal components which may be installed within the flameproof enclosure, including limitations with respect to their location. Typical internal equipment comprises terminals, switches, contactors, relays and some intrinsically safe equipment. Although this certificate allows the inclusion of this intrinsic safety equipment, it does not endorse their intrinsic safety properties (see certificate conditions).

Variation 1

This variation introduced the following changes:

- i. The company name was changed from Expo-Telektron Safety Systems Ltd. to Expo Technologies Ltd. together with a change of company logo.
- ii. The Minipurge Interface Unit Type MIU/d was allowed to be used in the presence of combustible dust; the marking of the equipment to include the following:

 II 2 G D IP6X



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Variation 2

This variation introduced the following change:

- i. The Minipurge Interface Unit Type MIU/d was allowed to be used in a maximum upper ambient temperature of +55°C with a temperature classification of T5.

Variation 3

This variation introduced the following changes:

- i. The Minipurge Interface Unit Type MIU/d was assessed and found to comply with the requirements of EN 60079-0:2006, EN 60079-1:2004, EN 61241-0: 2006 and EN 61241-1: 2004.
- ii. The type dK and dN enclosures were introduced.

Variation 4 - This variation introduced the following change:

- i. The recognition of the Applicant's address change from Summer Road, Thames Ditton, Surrey KT7 0RH to Unit 2, The Summit, Hanworth Road, Sunbury on Thames, Surrey TW16 5DB.

Variation 5 - This variation introduced the following change:

- i. The option of using a Killark Type KDB breather drain was introduced resulting in an alternative marking.



II 2 G Ex d IIB+H₂ T3 Ta = -20°C to +55°C.

Variation 6 - This variation introduced the following change:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2006, EN 60079-1:2004, EN 61241-0:2006 and EN 61241-1:2004 were replaced by EN 60079-0:2012/A11:2013, EN 60079-1:2014 and EN 60079-31:2014, the markings were updated accordingly, and removed from the description.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	7 June 2002	R51A7166A	The release of prime certificate.
1	15 August 2005	R51A11088A	The introduction of Variation 1.
2	2 September 2005	R51A13816A	The introduction of Variation 2.
3	27 April 2007	R51L15967A	This Issue covers the following changes: <ul style="list-style-type: none">• All previously issued certification was rationalised into a single certificate, Issue 3, Issues 0 to 2 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.• The company name was changed to Expo Technologies Ltd.• The introduction of Variation 3.
4	05 October 2012	R29097A/00	The introduction of Variation 4.



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Issue	Date	Report no.	Comment
5	30 June 2015	R70006555A	The introduction of Variation 5.
6	31 July 2015	R70006555B	The introduction of Variation 6.
7	15th October 2019	1571	<ul style="list-style-type: none">• Transfer of certificate Sira 02ATEX1129 from Sira Certification Service to CSA Group Netherlands B.V..• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 02ATEX1129
Equipment: Minipurge Interface Unit Type MIU/d
Applicant: Expo Technologies Limited

Issue 0

The drawings associated with this Issue were replaced by those listed in Issue 3.

Issue 1

The drawings associated with this Issue were replaced by those listed in Issue 3.

Issue 2

The drawings associated with this Issue were replaced by those listed in Issue 3.

Issue 3

Drawing No.	Sheet	Rev.	Date	Description
EP90-3dA	1 of 1	6	21 Nov 06	Ex d Boxes Dimensions Key
EP90-2dA	1 of 1	3	21 Nov 06	dA Box
EP90-8A	1 of 1	4	05 Feb 07	dA Box Contents
EP90-2dX	1 of 1	2	21 Nov 06	dX Box
EP90-8X	1 of 1	4	05 Feb 07	dX Box Contents
EP90-2dT	1 of 1	2	21 Nov 06	dT Box
EP90-8T	1 of 1	4	05 Feb 07	dT Box Contents
SD7528	1 of 1	1	22 Feb 07	Key to Dimensions dK and dN Boxes
SD7529	1 of 1	1	22 Feb 07	dK and dN Boxes Contents
EP90-5	1 of 1	4	05 Feb 07	Earthing and Other Details
SD7485	1 of 1	2	15 Mar 07	Ex d Box Sealing for Dust Certification
EP90-10	1 of 1	3	27 Feb 07	Linear Feedthrough C9L
EP90-4dA	1 to 9	5	20 Feb 07	d Series Boxes Data Sheets
EP90-6	1 of 1	6	20 Feb 07	Permitted Contents for MIU/d
SD7526	1 of 1	1	20 Feb 07	MIU/d Certification Label ATEX/IECEX

Issue 4

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
SD7526	1 of 1	2	05 Oct 12	MIU/d Certification Label

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EP90-4dA	1 to 9	6	10 Apr 15	d-Series Boxes Data Sheets
SD7526	1 to 2	3	10 Apr 15	MIU/d Certification Label ATEX / IECEX

Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EP90-4dA	1 to 9	7	30 Jul 2015	d-Series Boxes Data Sheets
SD7526	1 to 2	4	30 Jul 2015	MIU/d Certification Label ATEX/IECEX

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