



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

Certificate No.:	<b>IECEX SIR 09.0038X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 5	Issue 4 (2019-09-03)
Date of Issue:	2023-04-14		Issue 3 (2016-04-14)
Applicant:	<b>Delta Mobrey Limited</b> Hudson House Albany Park Surrey Camberley GU16 7PL <b>United Kingdom</b>		Issue 2 (2014-10-14)
Equipment:	<b>Mobrey Flameproof Vertical Liquid Level Controls (series B, D &amp; X)</b>		Issue 1 (2013-06-11)
Optional accessory:			Issue 0 (2009-04-06)
Type of Protection:	<b>Flameproof</b>		
Marking:	Ex d IIC T6....T1 Ga/Gb Ta = -50°C to +60°C		

Approved for issue on behalf of the IECEx  
Certification Body:

**Michelle Halliwell**

Position:

**Director Operations, UK & Industrial Europe**

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**CSA Group Testing UK Ltd**  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside CH5 3US  
**United Kingdom**





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Manufacturer: **Delta Mobrey Limited**  
Hudson House  
Albany Park  
Surrey  
Camberley GU16 7PL  
**United Kingdom**

Manufacturing locations: **Delta Mobrey Limited**  
Hudson House  
Albany Park  
Surrey  
Camberley GU16 7PL  
**United Kingdom**

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-1:2007-04](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

[IEC 60079-26:2014-10](#) Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga  
Edition:3.0

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/ExTR09.0046/00](#)  
[GB/SIR/ExTR16.0073/00](#)

[GB/SIR/ExTR13.0146/00](#)  
[GB/SIR/ExTR19.0229/00](#)

[GB/SIR/ExTR14.0245/00](#)  
[GB/SIR/ExTR23.0077/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0033/11](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Type Flameproof Vertical Level Controls (Series B, D & X) consist of either a gunmetal, stainless steel, cast iron or aluminium housing having a high or low domed threaded cover. The interface between the housing and cover forms an M160 x 2 threaded flamepath; this is further secured by an M5 x 10 socket-head set screw. The product can contain up to four, 2 pole or up to two, 4 pole switches rated at up to 440 Vac, 2000 VA maximum or 250 Vdc, 50 W maximum and associated terminals.

The enclosure contains a pressure tube, rated up to 102 bar, swaged and welded to a mounting bush which passes through the enclosure base wall by means of a cylindrical joint. The bush is secured in place by a circlip within the enclosure. Magnetically operated switches with associated terminals and optional line monitoring resistors are clamped to the pressure tube and are activated by magnet assemblies contained within the pressure tube, which rise and fall with the liquid level via rod linkages to an associated float.

Refer to the Annexe for additional information and Conditions of Manufacture.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to the Annexe.



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

**This issue, Issue 5, recognises the following changes; refer to the certificate annex to view a comprehensive history:**

1. To change the address on the certificate:  
From: 158 Edinburgh Avenue, Slough, Berkshire SL1 4UE, United Kingdom  
To: Hudson House, Albany Park, Camberley, Surrey, GU16 7PL, United Kingdom

**Annex:**

[IECEX SIR 09.0038X Issue 5 Annexe.pdf](#)

Annexe to: IECEx SIR 09.0038X Issue 5

Applicant: Delta Mobrey Limited

Apparatus: Mobrey Flameproof Vertical Liquid Level Controls (series B, D & X)



### Design Options

- Multiple mounting flanges, these are outside the flameproof envelope and thus do not directly affect the products flameproof characteristics. All options are detailed in the product instruction manual.
- Multiple float mechanisms, these are outside the flameproof envelope and thus do not directly affect the products flameproof characteristics. All options are detailed in the product instruction manual.
- The product may be fitted with up to 8 line monitoring wirewound resistors with a maximum rating of 2.5 W de-rated to 0.83 W maximum each.
- Multiple internal types of switch as detailed in the table below:

Type	AC max			DC max			
	VA	volts	Amps	Watts	volts	Res Amps	Ind Amps
D4, D8	2000	440	5	50	250	5	0.5
X4, X8	2000	440	10	50	250	10	0.5
P4, P8	6	250	0.25	3.6	250	0.25	0.1
H4, H8	2000	440	10	50	250	10	0.5

### Specific Conditions of Use

1. The floats can be made from non-metallic materials as required by the user; therefore the user shall ensure that the material used is suitable for the application and is not ignition capable (i.e. due to static electricity).
2. When coated with a non-standard paint the enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
3. The minimum length of the cylindrical non-threaded joint between the pressure tube union and the enclosure is greater than the relevant minimum required by Table 2 of IEC 60079-1:2007; therefore, for information on the dimensions of the flameproof joints the original manufacturer shall be contacted.
4. The temperature class is defined by the appropriate ambient temperature and process temperature as stated in the table below:

T Class	Process Temperature
T6	-50°C to +80°C
T5	-50°C to +95°C
T4	-50°C to +130°C
T3	-50°C to +195°C
T2	-50°C to +290°C
T1	-50°C to +400°C

Ambient Air Temperature: -50°C to +60°C.

### Conditions of Manufacture

1. Each enclosure partition wall (the pressure tube assembly) shall be subjected to a type overpressure test equal to 1.5 x PRATED at 20°C, applied for 60 s without any visible leakage or damage to the enclosure. Where PRATED is the maximum process pressure of the equipment.
2. When the user/installer has specified that the float and mounting flange surface should be made from non-metallic material, then the manufacturer shall advise them about the possibility of the build up of

Annexe to: IECEx SIR 09.0038X Issue 5  
Applicant: Delta Mobrey Limited  
Apparatus: Mobrey Flameproof Vertical Liquid Level Controls (series B, D & X)



electrostatic charge on such surfaces, including the precautions that are necessary in order to avoid the occurrence of dangerous electrostatic discharges e.g. Do not rub with a dry cloth.

3. The product instructions shall ensure that the float mechanism is installed in such a way to prevent any damage due to impact or ignition source due to friction.
4. The manufacturer shall ensure that the appropriate label including the warning, **WARNING ALLOW 4 MINUTES AFTER ISOLATION BEFORE REMOVING COVER**, is fitted when the product is fitted with end of line resistors. In addition, the selection of cable must be dealt with in the instructions to ensure the appropriate temperature rated cable is used by the installer.

## Full certificate change history

**Issue 1** – this Issue introduced the following change:

1. The Type Identification/Part Number structure was changed, this was recognised on the associated label drawings which were reviewed and the notes on these drawings were clarified as required e.g. the application of the IECEx marking was more specifically defined. The title of the certificate and the product description were amended to accommodate this change.

**Issue 2** – this Issue introduced the following change:

1. The Applicant's name was changed from Mobrey Limited to Rosemount Measurement Limited, the address is unchanged.

**Issue 3** – this Issue introduced the following changes:

1. To permit the removal of gunmetal as a material of manufacture.
2. The inclusion of the ratings of the external source of heating or cooling in the Conditions of Certification in the certificate.
3. To permit the introduction of an optional external coating on the enclosure.
4. Assessment of minor changes made to drawings 71097/982, 71097/1048 and 71097/1049.
5. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 and IEC 60079-26:2006 were replaced by IEC 60079-0:2011 and IEC 60079-26:2014.

**Issue 4** – this Issue introduced the following changes.

1. The Applicant's name and address were changed from Rosemount Measurement Limited, 158 Edinburgh Avenue, Slough, Berkshire SL1 4UE, United Kingdom to Delta Mobrey Limited, Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS, United Kingdom.
2. The Manufacturer's name was changed from Rosemount Measurement Limited to Delta Mobrey Limited, the address remaining the same.

**Issue 5** – this Issue introduced the following change:

1. To change the address on the certificate:

**From:**  
158 Edinburgh Avenue  
Slough  
Berkshire SL1 4UE  
United Kingdom

**To:**  
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Albany Park  
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