



# 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.: **IECEX SIR 07.0081X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 6

Issue 5 (2019-09-03)

Issue 4 (2017-09-28)

Issue 3 (2016-03-09)

Issue 2 (2014-10-14)

Issue 1 (2013-06-11)

Issue 0 (2007-12-13)

Date of Issue: 2023-04-14

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

Equipment: **Mobrey Flameproof Horizontal Float Switch (Series S2\*\*)**

Optional accessory:

Type of Protection: **Flameproof**

Marking: Ex db IIC T6...T1 Ga/Gb  
(Ta = -60 °C to +60 °C) or  
(Ta = -20 °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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Certificate No.: **IECEX SIR 07.0081X**

Page 2 of 5

Date of issue: 2023-04-14

Issue No: 6

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[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/ExTR07.0123/00](#)  
[GB/SIR/ExTR16.0037/00](#)  
[GB/SIR/ExTR23.0077/00](#)

[GB/SIR/ExTR13.0146/00](#)  
[GB/SIR/ExTR17.0205/00](#)

[GB/SIR/ExTR14.0245/00](#)  
[GB/SIR/ExTR19.0229/00](#)

Quality Assessment Report:

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



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 07.0081X**

Page 3 of 5

Date of issue: 2023-04-14

Issue No: 6

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Flameproof Horizontal Float Switch (Series S2\*\*) consists of a cast aluminium alloy, aluminium bronze, gunmetal or stainless steel enclosure/cover and a stainless steel (or other pressure grade metal) fork diaphragm. The enclosure/cover and enclosure/fork diaphragm interfaces both form a cylindrical flamepath. Hexagonal socket head screws secure the enclosure/cover and enclosure/fork flange flamepaths respectively. The Level Switch is intended to monitor the liquid level inside a vessel. Inside the flameproof enclosure is a microswitch based switching mechanism with an integral magnet. The enclosure body supports an external float, which also contains an integral magnet. The float unit activates the switch via the interaction of the two magnets.

The Level Switch may be fitted with up to 4 line monitoring wirewound resistors with a maximum rating of 2.5 W de-rated to 0.83 W maximum each

Refer to the Annexe for additional information.

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

1. The product can utilise different types of fasteners; therefore replacement fasteners, when required, shall be provided by the manufacturer.
2. When the product is fitted with end of line resistors, the cable entry temperature will exceed 70°C; therefore, suitably selected cable shall be used.
3. When the float is made from a non-metallic material, the user shall ensure that the material is suitable for the application.
4. No maintenance or repair of the flameproof enclosure is permitted.



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 07.0081X**

Page 4 of 5

Date of issue: 2023-04-14

Issue No: 6

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

**This issue, Issue 6, recognises the following change; refer to the certificate annex to view a comprehensive history:**

1. To change the address on the certificate:  
From: Riverside Business Park, Dogflud Way, Farnham, Surrey, GU9 7SS, United Kingdom  
To: Hudson House, Albany Park, Camberley, Surrey, GU16 7PL, United Kingdom



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 07.0081X**

Page 5 of 5

Date of issue: 2023-04-14

Issue No: 6

## Additional information:

The manufacturer shall note the following conditions of manufacture:

1. The enclosures that are marked with a minimum ambient temperature of  $-60^{\circ}\text{C}$  shall be subjected to a routine overpressure test of 20.55 bar for at least 10 s, as required by clause 16.1 of IEC 60079-1:2003. There shall be no permanent deformation or damage to the enclosure.
2. Each enclosure partition wall shall be subjected to a type overpressure test equal to  $1.5 \times \text{PRATED}$  applied for 1 minute without any visible leakage or damage to the enclosure (where PRATED is the maximum process pressure of the product). In addition, if the maximum process temperature is considered to affect the strength of the product, this test shall be conducted at that temperature.
3. When the user/installer has specified that the float and mounting flange surface should be made from a non-metallic material, then the manufacturer shall advise them about the possibility of the build-up of 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.
4. 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.
5. The manufacture 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 shall be dealt with in the instructions to ensure the appropriate temperature rated cable is used by the user/installer.
6. The manufacturer shall ensure that stainless steel fasteners are fitted for  $-60^{\circ}\text{C}$  applications.
7. The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the Conditions of Certification.

## Annex:

[IECEX SIR 07.0081X Annexe Issue 6.pdf](#)

Annexe to: IECEx SIR 07.0081X Issue 6

Applicant: Delta Mobrey Limited

Apparatus: Mobrey Flameproof Horizontal Float Switch  
(Series S2\*\*)



The unit may be provided with alternative switch contacts rated as indicated below:

Type D switches			
Rating	A.C.	D.C. Inductive	D.C. Resistive
Max voltage	440	240	240
Max current	8.0* *max current above 210°C is 5.0 A	1.0	2.0
Max power	2000 VA	35 Watts	70 Watts
Power factor	0.4 min	-	-
Time constant	-	40 ms max	-
Type D6, H6 & B6 switches			
Rating	A.C.	D.C. Inductive	D.C. Resistive
Max voltage	440	240	240
Max current	5.0	1.0	2.0
Max power	2000 VA	35 Watts	70 Watts
Power factor	0.4 min	-	-
Time constant	-	40 ms max	-
Type P & P6 switches (These switches have the same electrical configuration as their respective D and D6 versions, however, the ratings are greatly reduced in order to protect the plated contacts, which may be permanently damaged if this insert is used to switch circuits above the following limits.)			
D.C. Inductive		D.C. Resistive	
24 V, 2 mH/200 mA		300 V, 12 mA	
24 V, 750 mH/10 mA		24 V, 250 mA	

## 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. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2006, EN 60079-1:2004 and EN 60079-26:2004 and IEC 60079-0:2004 Ed 4, IEC 60079-1:2004 Ed 4 and IEC 60079-26:2004 Ed 1 were replaced by IEC 60079-0:2011, Ed.6, IEC 60079-1:2007 Ed.6 and IEC 60079-26:2014 Ed.3, the marking was amended to reflect the EPL.
2. Changes to drawings to reflect the requirements of the updated standards.

Issue 4 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-1:2007 Ed 6 was replaced by IEC 60079-1:2014 Ed 7, the markings were updated accordingly. In addition, a Specific Condition of Use was introduced.

Date: 14 April 2023

Page 1 of 2

**Annexe to:** IECEx SIR 07.0081X Issue 6

**Applicant:** Delta Mobrey Limited

**Apparatus:** Mobrey Flameproof Horizontal Float Switch  
(Series S2\*\*)



**Issue 5** – 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 6** – this Issue introduced the following change:

1. To change the address on the certificate:

**From:**

Riverside Business Park  
Dogflud Way  
Farnham  
Surrey, GU9 7SS  
United Kingdom

**To:**

Hudson House  
Albany Park  
Camberley  
Surrey, GU16 7PL  
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