



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 03ATEX1140X** Issue: **8**

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

5 Applicant: **Delta Mobrey Limited**

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

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 60079-26:2015

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:



II 1/2 G

Ex db IIC T6...T1 Ga/Gb (-20°C ≤ Tamb ≤ +60°C)

Ex db IIC T6...T1 Ga/Gb (-60°C ≤ Tamb ≤ +60°C)

Project Number 0747

Signed: 

Title: Director of Operations

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Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

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#### 13 DESCRIPTION OF EQUIPMENT

The product consists of a cast aluminium alloy, aluminium bronze, gunmetal or stainless steel enclosure/lid and a stainless steel (or other pressure grade metal) fork diaphragm. The enclosure/lid and enclosure/fork diaphragm interfaces both form a cylindrical flamepath. Three M6 x 25 hexagonal socket head screws and four M5 x 16 hexagonal socket head screws secure the enclosure/lid and enclosure/fork flange flamepaths respectively. The product minimum wall thickness is 3.00 mm except for the base of drive screw holes in the enclosure/lid, which are 2.3 mm. The product 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.

#### 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 internal switches as detailed 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, the plating may be permanently damaged if this insert is used to switch circuits above the following limits.)

D.C. Inductive	D.C. Resistive
24 V 2mH/200mA	300 V 12 mA
24 V 750 mH/10mA	24 V 250 mA

- 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 4 line monitoring, wirewound resistors with a maximum rating of 2.5 W de-rated to 0.83 W maximum each.



## SCHEDULE

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**Variation 1** - This variation introduced the following changes:

- i. 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 ATEX marking was more specifically defined. The title of the certificate and the product description were amended to accommodate this change.

**Variation 2** - This variation introduced the following change:

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

**Variation 3** - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2006, EN 60079-1:2004 and EN 60079-26:2004 were replaced by EN 60079-0:2012, EN 60079-1:2007 and EN 60079-26:2015, the marking was amended to reflect the EPL.
- ii. Changes to drawings to reflect the requirements of the updated standards.

**Variation 4** - This variation introduced the following change:

- i. To permit the use of alternate stainless steel drive screws for securing the product name plate.
- ii. The introduction of Nickel or Tin plating to the external component surfaces of components manufactured from gunmetal.
- iii. The existing scheduled drawings were reviewed and rationalised, replacing all previous scheduled drawings documented. Which included minor drawing modifications; these amendments are administrative and do not affect the aspects of the product that are relevant to explosion safety.
- iv. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012 and EN 60079-1:2007, were replaced by EN 60079-0:2012/A11:2013 and EN 60079-1:2014, the markings were updated accordingly. In addition a Specific Condition of Use was introduced.

**Variation 5** - This variation introduced the following change:

- i. 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.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	9 June 2003	R51A9801A	The release of the prime certificate.



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

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**Issue 8**

Issue	Date	Report no.	Comment
1	13 December 2007	R59L16845A	This Issue covers the following changes: <ul style="list-style-type: none"><li>All previously issued certification was rationalised into a single certificate, Issue 1, Issue 0 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format.</li><li>Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079</li></ul>
1	13 December 2007	R59L16845A	series of standards, the documents originally listed in section 9 were replaced, the markings in section 12 were updated accordingly. <ul style="list-style-type: none"><li>The change of the Applicant's name, first recognised 8 March 2006, was included, report number VR51A13857A refers.</li></ul>
2	8 May 2013	R9801A/01	Issued to allow report R9801A/01 to replace R51A9801A.
3	3 June 2013	R30307A/00	The introduction of Variation 1.
4	24 September 2014	R70011346A	The introduction of Variation 2.
5	10 March 2016	R70054348A	The introduction of Variation 3.
6	28 September 2017	R70136446A	This Issue covers the following changes: <ul style="list-style-type: none"><li>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></li><li>The introduction of Variation 4.</li></ul>
7	03 September 2019	R80014446A	The introduction of Variation 5
8	15 <sup>th</sup> October 2019	0747	<ul style="list-style-type: none"><li>Transfer of certificate <b>Sira 03ATEX1140X</b> from Sira Certification Service to CSA Group Netherlands B.V..</li></ul>

#### 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 The product can utilise different types of fasteners; therefore replacement fasteners, when required, shall be provided by the manufacturer.
- 15.2 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.
- 15.3 When the float is made from a non-metallic material, the user shall ensure that the material is suitable for the application.
- 15.4 No maintenance or repair of the flameproof enclosure is permitted.

#### 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.

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# Certificate Annexe



**Certificate Number:** Sira 03ATEX1140X

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

**Applicant:** Delta Mobrey Limited

## Issue 0

Number	Sheet	Rev.	Date	Description
71097/981	1 of 1	1	16 Jan 03	Flameproof Switch Head
71097/996	1 of 1	2	17 Mar 03	Flameproof Switch Head Markings
71097/997	1 of 1	1	16 Jan 03	Line Monitoring Resistors In Flameproof Level Switches

## Issue 1

Number	Sheet	Rev.	Date	Description
71097/981	1 of 1	3	12 Oct 07	General Assembly
71097/996	1 of 1	5	12 Oct 07	Certification Label - ATEX
71097/997	1 of 1	3	21 Sep 07	Certification Label with Line Monitoring Switches - ATEX
71097/1247	1 of 1	1	20 Sep 07	Switch Ratings

**Issue 2** No new drawings were introduced.

## Issue 3

Number	Sheet	Rev.	Date	Description
71097/996	1 of 1	6	07 May 13	Flameproof Switch Head Markings (ATEX/IECEX)
71097/997	1 of 1	5	07 May 13	Line Monitoring Resistors in Flameproof Level Switches

## Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
71097/1356	1 of 1	01	23 Sep 14	Generic nameplate

## Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
71097/981	1 of 1	AD*	08 Jan 16	General Assembly
71097/996	1 of 1	AG*	08 Jan 16	Certification Label - ATEX
71097/997	1 of 1	AF*	08 Jan 16	Line monitoring resistors - ATEX

\* In 2014 Business Systems combined with the main Rosemount system. They use alpha-alpha revision codes. As the approval drawings are revised, they are changing from numeric to Alpha-alpha revision format. They have not restarted at AA but have used the appropriate next character, so Rev 3 has gone to Rev AD, Rev 5 to Rev AF, Rev 6 to Rev AG.

## Issue 6

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
71097/1247	1 of 1	1	20 Sep 07	Switch Ratings
71097/1356	1 of 1	1	23 Sep 14	Generic nameplate
71097/981	1 of 1	AF	06 Sep 17	General Assembly
71097/996	1 of 1	AH	06 Sep 17	Certification Label - ATEX
71097/997	1 of 1	AF	08 Jan 16	Line monitoring resistors - ATEX

Note – the drawings documented in Issue 6 replace all previous scheduled drawings.

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# Certificate Annexe



**Certificate Number:** Sira 03ATEX1140X

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

**Applicant:** Delta Mobrey Limited

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## Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
71097/1406*	1 of 1	AA	22 Aug 19	Generic nameplate

\*This drawing replaces the existing generic nameplate drawing 71097/1356, which is now obsolete.

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