



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 03ATEX1190X** Issue: **4**

4 Equipment: **A Type MLT 100 Flameproof Level Transmitter**

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 50014:1997 (amendments A1 and A2)	EN 50281-1-1:1998	EN 13463-1:2001
EN 50018:2000	EN 50284:1999	

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



II 1/2 D (T85°C)

EEx d IIC T6 (-40°C ≤ Tamb ≤ +75°C)

Project Number 1797

Signed: 

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
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 iron base and threaded cover designated the Main Housing. The threaded interface forms a flamepath and is secured by a grub screw. The base is fitted with a pressure tube, which enters the enclosure and the tank to which the transmitter is attached. The pressure tube is sealed (welded) at the enclosure end. The pressure tube houses an actuating rod linked to a float or similar device within the tank. Electronics within the enclosure senses movement of the actuating rod.

The product can be fitted with a second enclosure, designated a Display Unit, this consists of an aluminium alloy base and threaded cover. The threaded interface forms a flamepath and is secured by a grub screw. The cover incorporates a glass window, which is cemented in position and retained by a locking ring. The Main Enclosure and the Display Unit are connected together by an adapter. This adapter is filled with cement and forms a bushing between the two units. The Display Unit or Main Enclosure can be fitted with a threaded plug, designated a 'caliplug', this contains a reed switch, an LED and cement. The LED can be viewed through a glass window. The glass window is cemented into the caliplug body. The caliplug is fitted into one of the cable entries provided in the Display Unit or Main Enclosure.

#### Design options

- Alternative main enclosure base casting.
- Multiple mounting flanges, these are outside the flameproof envelope and thus do not directly affect the product's 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 product's flameproof characteristics. All options are detailed in the product instruction manual.

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

- The introduction of alternative materials of manufacture for the Main and Display Housings including stainless steel which is used in the construction of two, new models, the following is a complete list of all the permissible materials:

Main Housing		
Material	Specification	Grade
Cast iron <sup>①</sup>	BS 1452:1990	250
Cast iron <sup>①</sup>	DIN 1891	GG20
Stainless steel <sup>②</sup>	ASTM A351	CF8M
Stainless steel <sup>②</sup>	BS 3100	316C12
Cast iron <sup>②</sup>	EN 1561	EN-GJL-250, EN JL 1040
Cast iron <sup>②</sup>	EN 1561	EN-GJL-200, EN JL 1030
Display Housing		
Material	Specification	Grade
Aluminium alloy <sup>①</sup>	ASTM B106-95	359.0
Stainless steel <sup>②</sup>	ASTM A351	CF8M
Stainless steel <sup>②</sup>	BS 3100	316C12

① Original material

② Material introduced by this variation

- The Description of the Equipment was amended to clarify the materials that were originally used in the manufacture for the Main and Display Housings.



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**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 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/File no.	Comment
0	19 June 2003	R51A9227A	The release of the prime certificate.
1	28 January 2008	R51A17757A	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>• The implementation of the change of the Applicant's name first recognised 8 March 2006.</li><li>• The introduction of Variation 1.</li></ul>
2	24 September 2014	R70011346A	The introduction of Variation 2.
3	03 September 2019	R80014446A	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></ul> The introduction of Variation 3.
4	15 <sup>th</sup> October 2019	1797	<ul style="list-style-type: none"><li>• Transfer of certificate <b>Sira 03ATEX1190X</b> from Sira Certification Service to CSA Group Netherlands B.V..</li></ul>

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

- 15.1 The partition wall can be made from materials other than stainless steel (i.e. hastelloy, monel, onel or oloy); therefore, the product shall not be subjected to environmental stresses that might adversely affect the partition wall.
- 15.2 The product cable entry temperature will exceed 70°C; therefore, suitably selected cable shall be used.

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## **SCHEDULE**

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- 15.3 When the float is made from a non-metallic material, the user shall ensure that the material is suitable for the application.
- 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 03ATEX1190X

**Equipment:** A Type MLT 100 Flameproof Level Transmitter

**Applicant:** Delta Mobrey Limited

## Issue 0

Number	Sheet	Rev.	Date	Description
71097/955	1 of 1	8	28 Apr 03	MLT100 Display Unit
71097/1041	1 to 2	2	28 Apr 03	MLT100 Assy – FLP
71097/1042	1 of 1	2	28 Apr 03	Label MLT100 Assy – FLP

## Issue 1

Number	Sheet	Rev.	Date	Description
71097/1042	1 of 1	3	07 Jan 08	Label MLT100 Assy – FLP
71097/1257	1 of 1	1	07 Jan 08	MLT100 housings material specifications

## Issue 2

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

## Issue 3

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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