



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 03ATEX2284X** Issue: **4**

4 Equipment: **7965 Display**

5 Applicant: **Mobrey Limited**

6 Address: 158 Edinburgh Avenue  
Slough  
Berkshire  
SL1 4UE  
UK

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 plus amendments A1 and A2      EN 50020:2002      EN 50284:1999

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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 1G  
EEx ia IIC T4 (Ta = -40°C to +60°C) - Pi = 1.20 W  
EEx ia IIC T4 (Ta = -40°C to +40°C) - Pi = 1.30 W

Project Number 52A18372  
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D R Stubbings BA MIET  
Certification Manager



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

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**Issue 4**

**13 DESCRIPTION OF EQUIPMENT**

The 7965 Display Unit is designed to communicate with the 78xx-series Advanced Density Transducer to provide a display of the electrical signals. The apparatus is powered from the Advanced Density Transducer and comprises electronic components mounted on a printed circuit board and a liquid crystal display (LCD), all housed in a plastic enclosure fitted with a membrane keypad and a window for viewing the LCD. External electrical connections are made via an integral terminal block and access for the cable is provided by a cable gland fitted into the side of the enclosure.

**Input Parameters**

- U<sub>i</sub> = 10V
- I<sub>i</sub> = 190mA
- P<sub>i</sub> = See coding
- C<sub>i</sub> = 0.7µF
- L<sub>i</sub> = 0.5mH

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

- i. The input power increase to match the output parameters of the Advanced Liquid Density Transmitter Type 78XX, certificate No. Sira 04ATEX2297.

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

- i. The M37732 processor type is to be replaced by a smaller M37733 processor.
- ii. Minor track changes.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	24 July 2003	R52A9915A	The release of prime certificate.
1	16 December 2004	R52A11916A	The introduction of Variation 1.
2	08 March 2006	R51A13857A	To permit the company name to be changed. From: Solatron Mobrey Limited To: Mobrey Limited
3	14 May 2007	R51A16605A	To permit the Mobrey Logo on the product nameplate to be replaced with the "Micro Motion" Logo
4	17 June 2008	R52A18372A	This Issue covers the following changes: <ul style="list-style-type: none"> <li>• All previously issued certification was rationalised into a single certificate, Issue 4, Issues 0 to 3 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.</li> <li>• The introduction of Variation 2.</li> </ul>

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**Sira Certification Service**

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**SCHEDULE**

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- 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)
15. The equipment shall not be directly installed in any process or airflow where its enclosure might be charged by the rapid flow of a non-conductive media.
- 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.
- 17 **CONDITIONS OF CERTIFICATION**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

# Certificate Annexe

**Certificate Number:** Sira 03ATEX2284X  
**Equipment:** 7965 Display  
**Applicant:** Mobrey Limited



## Issue 0

Number	Sheet	Rev.	Date	Description
79655004	1 of 1	4	26 Jun 03	General assembly
79655001	1 of 3	6	01 Jul 03	PCB details
79655001	2 of 3	6	01 Jul 03	Circuit diagram
79655001	3 of 3	6	26 Jun 03	Parts list
79655006	1 of 1	2	01 Jul 03	Label

## Issue 1

Number	Sheet	Rev.	Date	Description
79655006	1 of 1	3	02 Nov 04	Label

## Issue 2

No drawings were introduced.

## Issue 3

No drawings were introduced.

## Issue 4

Number	Sheet	Rev.	Date	Description
79655001	1 of 3	7	04 Apr 08	PCB details
79655001	2 of 3	7	04 Apr 08	Circuit diagram
79655001	3 of 3	7	04 Apr 08	Parts list

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