



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 02ATEX1034X** Issue: **2**

4 Equipment: **Range 3000 Transmitter**

5 Applicant: **GDS Technologies Limited**

6 Address: Fusion Point
Ash Lane
Garforth
Leeds
LS25 2GA
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 (Amendments A1 & A2) EN 50018:2000 (Amendment A1) EN 50281-1-1:1998

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 2 G D
EEx d IIC T6 T85°C Tamb -20°C to +60°C
EEx d IIC T5 T100°C Tamb -20°C to +75°C
EEx d IIC T4 T135°C Tamb -20°C to +110°C
EEx d IIC T3 T200°C Tamb -20°C to +135°C

Project Number 51L19300
C. Index 14

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D R Stubbings BA MIET
Certification Manager



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Range 3000 Transmitter comprises an F1 Gas Sensor mounted via a cable entry point to a Range 3000 flameproof junction box manufactured by Flameproof Electrical Enclosures Ltd. The Range 3000 junction box is a circular enclosure with either a flat or dome cover; it is manufactured from either grey cast iron or stainless steel. The cover is secured using four M6 x 16 mm socket head cap screws. Up to seven (flat cover) or eight (dome cover) cable entry bosses are provided to produce a multi-way junction box. On the rear of the enclosure casting, there are either two or four lugs that are intended for mounting.

Variation 1 - This variation introduced the following change:

- i. The option to use an alternative printed circuit board assembly together with its associated mounting arrangements.

Variation 2 - This variation introduced the following changes:

- i. The change of the Applicant's address from Swillington Lane, Swillington, Leeds, LS26 6BZ to Fusion Point, Ash Lane, Garforth, Leeds, LS25 2GA.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	24 October 2003	R51A8269A	The release of the prime certificate.
1	24 February 2004	R51V11061A	The introduction of Variation 1.
2	9 December 2008	R51L19300A	This Issue covers the following changes: <ul style="list-style-type: none">• All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 to 1 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.• The introduction of Variation 2.

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

- 15.1 The Range 3000 Transmitter shall not be used a Safety Related Device in accordance with Directive 94/9/EC.

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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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

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Issue 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.
- 17.3 The Range 3000 Transmitter covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of the Range 3000 Transmitter.
- 17.4 The manufacturer shall substitute, on the approved label affixed to the apparatus, the new name and address for the old name and address.

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Certificate Annexe

Certificate Number: Sira 02ATEX1034X
Equipment: Range 3000 Transmitter
Applicant:



Issue 0

Drawing No.	Sheet	Rev.	Date	Description
DDC-015-3	1 of 1	C	29 Apr 97	GAS SENSOR TYPE:- GDS-F1
DDC-015/5	1 of 1	C	29 Apr 97	GAS SENSOR TYPE:- GDS-F1
DDC 015/10	1 of 1	A	06 Oct 92	GAS SENSOR TYPE:- GDS-F1
DDC-015-11	1 of 1	A	29 Sep 92	GAS SENSOR TYPE:- GDS-F1
DDC-015/17	1 of 1	A	08 Jun 95	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC-015/18	1 of 1	A	-- Apr 95	GAS SENSOR BODY (EXTENDED) TYPE:- GDS F1
DDC015-19	1 of 1	A	20 Apr 97	GDS F1 GAS SENSOR EXTENDED BODY
DDC015-20	1 of 1	A	20 Apr 95	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC-015/21	1 of 1	A	08 Jun 95	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC-015-23	1 of 1	A	12 Mar 97	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC015-24	1 of 1	A	07 Jun 97	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC015-25	1 of 1	A	07 Jun 97	GAS SENSOR EXTENDED BODY TYPE:- GDS F1
DDC015-26	1 of 1	A	01 Apr 03	GDS F1 BODY MARKING
DDC 015-27	1 of 1	B	01 Apr 03	GDS 3000 ENCLOSURE LABEL
ARW 131	1 of 1	B	19 Jun 03	3000 JUNCTION BOX AND CV TRANSMITTER COMPONENT DRAWING

Issue 1

Drawing No.	Sheet	Rev.	Date	Description
ARW 131	1 of 1	C	19 Nov 03	3000 Junction Box & CV Transmitter

Issue 2 No new drawings were introduced.

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