



EC TYPE-EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 06ATEX1366X** Issue: **3**

Equipment: **TOCSIN 102 Series Enclosure**

Applicant: **Extronics Limited**

Address: Unit 1 Dalton Way
Midpoint 18
Middlewich
Cheshire
CW10 0HU
UK

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

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.

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 60079-0:2006 EN 60079-1:2007 EN 61241-0:2006 EN 61241-1:2004
IEC 60079-0:2007 (used for guidance in respect of marking)

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.

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.

The marking of the equipment shall include the following:



102 Optical Assembly

II 2 G D
Ex d IIC T6 Gb
Ex tb IIIC T6 Db IP66
Ta = -20°C to +55°C



102 Gas Detector Assembly

II 2 G D
Ex d IIC T6 Gb Ta = -20°C to +40°C
Ex tb IIIC T6 Db IP66
Ex d IIC T5 Gb Ta = -20°C to +55°C
Ex tb IIIC T5 Db IP66

Project Number

A G Boyes
Certification Support Officer

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The TOCSIN 102 Series Enclosure can be used to form either:

- § a TOCSIN 102 Optical Assembly, maximum power dissipation 6 W; this unit utilises a glass window insert and is fitted with an optical unit e.g. camera.
- § a TOCSIN 102 Gas Detector Assembly, maximum power dissipation 2 W; this unit utilises a sintered element insert and is fitted with a gas sensor.

The TOCSIN 102 Hazardous Area CCTV Camera Module consists of stainless steel body and insert. These two items are retained by a circlip and connected by a threaded flamepath. Whilst the body is a generic item, there are two types of insert; one incorporates a glass window (102 Optical Assembly) and the other a sintered element (102 Gas Detector Assembly). Both the glass window and sintered element are cemented in position (Devweld 531). The window is also fitted with a backing ring and circlip.

The rear of the body incorporates a cemented (Araldite CW1404 GB/HY1456 GB) bushing assembly. This allows the passage of permanently connected cable from inside to outside the enclosure. The permanently connected cable will be terminated in a suitably selected and certified enclosure.

Variation 1 - This variation introduced the following change:

- i. The upper service temperature limit of the (102 Optical Assembly) was increased from +40°C to +55°C with a temperature classification of T6.
- ii. The upper service temperature limit of the (102 Gas Detector Assembly) was increased from +40°C to +55°C with a temperature classification of T5.

Variation 2 - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments 1 and 2), EN 50018:2000 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly and the conditions were modified to recognise the requirements of the latest standards.

Variation 3 - This variation introduced the following changes:

- i. The applicant's address has changed:

From:
Meridian House
Roe street
Congleton
Cheshire CW12 1PG
UK

To:
Unit 1 Dalton Way
Midpoint 18
Middlewich
Cheshire CW10 0HU
UK

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	17 January 2007	R51A15846A	The release of the prime certificate.
1	14 October 2009	R19039B	This Issue covers the following changes: <ul style="list-style-type: none">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.The introduction of Variation 1.
2	18 December 2009	R21047A	The introduction of Variation 2.
3	12 May 2014	R70006138A	This Issue covers the following changes: <ul style="list-style-type: none">The marking in section 12 was amended and is now in line with that recommended in report number R21047A.The introduction of Variation 3.

14.3 Certificate number Sira 02ATEX1271X Issue 2

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

15.1 The free end of the permanently connected cable shall be protected in accordance with EN 60079-0:2006 Clause 14.1.

15.2 In accordance with EN 60079-1:2007 Clause C.2.1.4 the rear end of bushing shall be protected by fitting it into a suitably certified enclosure. In addition, the bushing must not be subject to torque during installation.

15.3 The product shall not be connected to portable equipment.

15.4 The product that is fitted with a window has only been subjected to reduced risk impact tests in accordance with EN 60079-1:2007 Clause 26.4.2; therefore it shall not be mounted in an area where there is a high risk of impact.

15.5 The product shall be earthed in accordance with EN 60079-0:2006 Clause 15 when fitted to a suitably certified enclosure.

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.

17.3 This product shall be uniquely marked with the label identified in the annexe of this certificate

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Sira Certification Service

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Certificate Annexe

Certificate Number: Sira 06ATEX1366X
Equipment: TOCSIN 102 Series Enclosure
Applicant: Extronics Limited



Issue 0

Drawing No.	Sheets	Issue	Date (Sira Stamp)	Title
3449703	1 of 1	1	22 Nov 06	T102 Engraving Detail 'EXTRONICS'

Issue 1

Drawing No.	Sheets	Issue	Date (Sira stamp)	Title
3449703	1 of 1	3	06 Oct 09	T102 Engraving Detail - Extronics
3449705	1 of 1	2	06 Oct 09	T102C Engraving Detail - Extronics

Issue 2

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
3449703	1 of 1	4	09 Dec 09	T102 Engraving Detail - Extronics
3449705	1 of 1	3	09 Dec 09	T102C Engraving Detail - Extronics

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
405025	1 of 1	1.0	09 May 14	TOCSIN 102C Extronics Engraving Detail
405026	1 of 1	1.0	12 May 14	TOCSIN 102 Extronics Engraving Detail

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