



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX2188** Issue: **2**

4 Equipment: **9491-PS 12VDC IS Power Supply Module**

5 Applicant: **Controlled Systems Limited**

6 Address: Unit 1 Ryder Close
Swadlincote
Derbyshire DE11 9EU
UK
(These products may be manufactured at any facility listed on Quality Assurance Notification Sira 98 ATEX M 034 that has been audited for the manufacture of the type of protection listed)

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 60079-0:2006 IEC 60079-26:2006 (for guidance on 'Ma' and 'Ga' marking) EN 61241-0:2006
EN 60079-11:2007 IEC 61241-11:2005

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) GD
(Ga) [Ex ia] IIB
(Gb) [Ex ib] IIB
[Ex iaD]
[Ex ibD]
Ta = 0°C to +70°C

and/or



I (M1/M2)
(Ma) [Ex ia] I
(Mb) [Ex ib] I

Project Number 3072

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 9491-PS 12VDC IS Power Supply Module is an intrinsically safe power supply intended to power equipment in the hazardous area. It consists of a printed circuit board assembly mounted in a plastic enclosure. There are two separate intrinsically safe outputs, one 'ia' and one 'ib'.

The power supply is intended to be either DIN rail mounted or backplane mounted.

External I.S. connections are made via 'plug-in' terminals at the top of the enclosure, one for each of the two separate I.S. circuits.

External non-I.S. connections are made via either 'plug-in' terminals at the side of the enclosure when the power supply is DIN rail mounted, or via a connector at the bottom of the enclosure when the equipment is backplane mounted.

The equipment must either only be installed in clean, dry, well-ventilated environments or fitted in an additional enclosure that has an IP rating suitable for the environment of use.

The power supply electrical parameters are:

Terminals 13 and 14 or 8 pin connector			
Um	250 V		
Terminals 1 and 3 (linear characteristic, resistive current limit, source) certification code (Ga) [Ex ia] IIB, [Ex iaD], (Ma) [Ex ia] I			
Uo	12.4 V		
Io	2.67 A		
Po	8.27 W		
Co	Group IIB	Group IIA	Group I
	7.9 μ F	30.0 μ F	31.0 μ F
Lo/Ro	Group IIB	Group IIA	Group I
	17.2 μ H/ Ω	34.4 μ H/ Ω	56.4 μ H/ Ω
Terminals 5 and 6 (non-linear, active current 'switch-off', source) certification code (Gb) [Ex ib] IIB, [Ex ibD], (Mb) [Ex ib] I			
Uo	12.4 V		
Io	505 mA		
Po	6.3 W		
Co	500 nF		
Lo	100 μ H		



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	31 July 2008	R52A16409B	The release of the prime certificate.
1	28 August 2008	R52A16409C	This Issue allowed report number R52A16409C to replace report number R52A16409B; the safety parameters were adjusted accordingly.
2	31st October 2019	3072	<ul style="list-style-type: none">• Transfer of certificate Sira 08ATEX2188 from Sira Certification Service to CSA Group Netherlands B.V..• 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>

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

15.1 None

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 08ATEX2188
Equipment: 9491-PS 12VDC IS Power Supply Module
Applicant: Controlled Systems Limited

Issue 0 and Issue 1

Number	Sheet	Rev.	Date	Description
9491-PSU	1 of 1	4	16 Jul 2008	Power Supply Circuit Diagram
9491-ASSY	1 of 1	1	17 Jul 2008	General Assembly
9491-LABEL ATEX SAFE	1 of 1	1	31 Jul 2008	Certification Label Details
9491-PSU PCB	1 of 1	4	21 Jul 2008	Printed Circuit Board Artworks
TRF305	1 of 2	2	10 Dec 2007	Transformer Type TFR305 Details
TRF305	2 of 2	2	10 Dec 2007	Transformer Type TFR305 Details

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