



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 17ATEX2270X** Issue: **2**

Equipment: **Controller Type P8/IS/X** (where X refers to different model variants)

Applicant: **Hawker Electronics Limited**

Address: 57, The Avenue
Rubery Industrial Estate
Birmingham B45 9AL
United Kingdom

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

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.

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 60079-0:2012/A11:2013

EN 60079-11:2012

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.

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.

The marking of the equipment shall include the following:



II (1)G

[Ex ia Ga] IIC

Ta = -20°C to +50°C

Project Number 0675

Signed:

Title: Director of Operations

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

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

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Issue 2

13 DESCRIPTION OF EQUIPMENT

The equipment is a control unit that is intended for use as part of a liquid level control system. It is associated apparatus for installation in a safe area and provides an intrinsically safe galvanically isolated interface to a hazardous area. It consists of a 'controller' p.c.b. assembly and a 'barrier' p.c.b. assembly housed in a polycarbonate enclosure. External connections are made via two terminal blocks, one for the safe area connections the other for the hazardous area connections.

The controller is intended to be used only in dry, clean and well controlled environments.

The equipment has the following parameters/ratings:

Hazardous Area Terminals

	P1 w.r.t G and P2 w.r.t. G	P1 + P2 w.r.t. G	P1 w.r.t. P2
Uo	11.5V	11.5V	23V
Io	17.8mA	35.6mA	17.8mA
Po	0.05W	0.1W	0.1W

	Group IIC	Group IIB	Group IIA
Co	0.143μF	1.03μF	3.71μF
Lo	27.8mH	102.0mH	213.7mH
Lo/Ro	250μH/Ω	947μH/Ω	1786μH/Ω

Safe Area Terminals

L, N	Um = 250V Supply 230VAC or 110Vac or 24Vac as appropriate
NC, C, NO	Um = 250V Internal relay contacts rated 277VAC / 30VDC, 10A These contacts shall not switch more than 5A r.m.s. or 250V r.m.s. or 100VA

Variation 1 - This variation introduced the following changes, to permit:

- Minor change to a drawing that does that affect the intrinsic safety protection.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	30 November 2017	R70138890A	The release of the prime certificate.
1	28 January 2019	R70208288A	The introduction of variation 1
2	15th October 2019	0675	<ul style="list-style-type: none">Transfer of certificate Sira 17ATEX2270X from Sira Certification Service to CSA Group Netherlands B.V..Update to label drawing.



SCHEDULE

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Issue 2

- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 The supply circuits to the equipment shall be limited to overvoltage Category I/II as defined in IEC 60664-1.
- 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 17ATEX2270X
Equipment: Controller Type P8/IS/X/X
Applicant: Hawker Electronics Limited

Issue 0

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
2908	1 of 3	B	04 Jul 03	Barrier P.C.B - Circuit Schematic
2908	2 of 3	A	04 Jul 03	Barrier P.C.B - Layout
2908	3 of 3	A	04 Jul 03	Barrier P.C.B - Mechanical Details
3452	1 of 1	A	29 Nov 17	General Arrangement and Marking
3453	1 of 1	A	23 Nov 17	Relay
3438	1 of 3	B	23 Nov 17	Controller P.C.B - Circuit Schematic
3438	2 of 3	B	23 Nov 17	Controller P.C.B. - Layout
3438	3 of 3	B	23 Nov 17	Controller P.C.B. – Mechanical Details
3451	1 of 1	A	23 Nov 17	Transformer

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
3451	1 of 1	B	08 Jan 19	P8/IS Transformer

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
3452	1 of 1	A	25 Feb 19	General Arrangement and Marking

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