



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 17.0065X

Issue No: 1

Certificate history:

Issue No. 1 (2019-01-28)

Issue No. 0 (2017-11-30)

Status: **Current**

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Date of Issue: **2019-01-28**

Applicant: **Hawker Electronics Limited**
57, The Avenue
Rubery Industrial Estate
Birmingham B45 9AL
United Kingdom

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

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking:

[Ex ia Ga] IIC
Ta = -20°C to +50°C

*Approved for issue on behalf of the IECEx
Certification Body:*

C Ellaby

Position:

Deputy Certification Manager

*Signature:
(for printed version)*

Date:

C. Ellaby
2019-01-28

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **Hawker Electronics Limited**
57, The Avenue
Rubery Industrial Estate
Birmingham B45 9AL
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/SIR/ExTR17.0248/00](#)

[GB/SIR/ExTR19.0016/00](#)

Quality Assessment Report:

[GB/SIR/QAR17.0013/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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. Refer to the Annexe for the equipment parameters

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The supply circuits to the equipment shall be limited to overvoltage Category I/II as defined in IEC 60664-1.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

This issue, Issue 1, recognises the following change; refer to the certificate annex to view a comprehensive history:

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

Annex:

[IECEX Cert SIR 17.0065X Annexe Issue 1.pdf](#)

Annexe to: IECEx SIR 17.0065X Issue 1

Applicant: Hawker Electronics Limited

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



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

CONDITIONS OF MANUFACTURE

The transformers incorporated in the equipment shall be subjected to routine voltage tests of 2500V r.m.s for 60s between all primary windings connected together and all secondary windings connected together in accordance with Clause 11.2 of IEC 60079-11:2011. Alternatively the tests may be carried out at 3000V r.m.s. for 1s

Full Certificate change history

Issue 1 – this Issue introduced the following change:

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