



## EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 17ATEX2271X** Issue: **2**

Equipment: **Holders Type HPE...../IS**

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 IEC 60079-0:2018                      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:

### Holder Type HPE5/X/IS



II 1G  
Ex ia IIC T6 Ga  
Ta = -20°C to +40°C

### All other models



II 1G  
Ex ia IIC T4 Ga  
Ta = -20°C to +80°C



Signed: M Halliwell

Title: Director of Operations

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## SCHEDULE

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#### 13 DESCRIPTION OF EQUIPMENT

The Holders Type HPE...../IS are a series of metallic electrodes that are intended to be used as part of liquid level control system. The Holder Type HPE5/IS has an integral wire that is electrically connected to the electrode. All other holder types are fitted with a termination enclosure mounted at one end that contains clamping arrangements utilising nuts, screws and collars for external wire connection to the electrode.

The type identifications and materials of construction of the range of holders are as follows:

Holder type		Termination enclosure material	Electrode material
HPE5/X/IS		No termination enclosure, electrode is fitted in a UPVC (plastics) shroud	Low Carbon 316L S/S Titanium Hastelloy C Monel
HPE8/X/IS HPE8/P/X/IS		Phenolic	Low Carbon 316L S/S Titanium Hastelloy C Monel Galvanised mild steel (optionally polyester coated)
HPE12/P/X/IS		Cap: Di-cast aluminium powder coated Body: Phenolic	Low Carbon 316L S/S Titanium Hastelloy C Monel (optionally polyester coated)
HPE7/X/IS HPE7/P/X/IS HPE7/PA/X/IS HPE7/P/F/X/IS HPE13A/X/IS HPE13A/P/X/IS HPE14/X/IS	HPE22/X/IS HPE22/P/X/IS HPE22/PA/X/IS HPE22/P/Fa/X/IS HPE23/X/IS HPE23/P/X/IS	Polypropylene	Low Carbon 316L S/S Titanium Hastelloy C Monel (optionally polyester coated)

The Holder Types HPE14/X/IS, HPE23/X/IS and HPE23/P/X/IS may optionally have up to 4 electrodes. The Holder Types HPE13A/X/IS, HPE13A/P/X/IS may optionally have up to 5 electrodes. All other holder types have 1 electrode.

The holders have the following intrinsic safety parameters:

Holder Type	Intrinsic Safety		
HPE5/X/IS	Li = 100mA	Ci = 0	Li = 0
All other holder types	Ci = 0	Li = 0	

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**Variation 1** - This variation introduced the following changes:

- i. The addition of certification markings to the equipment marking labels that are not related to this certification.
- ii. The addition of detailed material specification for the label materials to the certification drawings.
- iii. The addition of further enclosure detail to specific certification drawings.
- iv. To permit the use of new alternative materials for some plastic parts.
- v. Standards upgrade from EN 60079-0:2012/A11:2013 to EN IEC 60079-0:2018.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 December 2017	R70138891A	The release of the prime certificate.
1	15 October 2019	0671	This Issue covers the following changes: <ul style="list-style-type: none"><li>• Transfer of certificate 17ATEX2271 from Sira Certification Service to CSA Group Netherlands B.V..</li><li>• Update to label drawings.</li></ul>
2	20 July 2022	R80117576A	The introduction of Variation 1.

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The holders cannot be considered as being capable of withstanding a 500V r.m.s. a.c. voltage test to earth according to Clause 6.3.13 of EN 60079-11:2012. This shall be taken into account in any equipment installation.
- 15.2 In any equipment installation, the following shall be provided with protection from impact or installed such that impacts cannot occur:
  - The cap of the Holder Type HPE 12/P/X/IS
  - The electrodes of holders that are fitted with titanium electrodes
- 15.3 The Holder Type HPE5/X/IS shall not be directly installed where it might be charged by the rapid flow of a non-conductive medium.
- 15.4 The electrodes of holders that have plastic coated electrodes and/or are fitted with plastic spacers between the electrodes, shall not be directly installed where they might be charged by the rapid flow of a non-conductive medium.
- 15.5 The holders shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on the surface of the termination enclosures (where fitted). In addition, the termination enclosures shall only be cleaned with a damp cloth.
- 15.6 Under certain extreme circumstances, any unearthed metallic parts of the termination enclosures may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism is unlikely to be present.
- 15.7 The user/installer shall ensure that the maximum ambient temperatures of the holders will not be exceeded when the equipment is installed.

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**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 MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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# Certificate Annexe



Certificate Number: Sira 17ATEX2271X  
Equipment: Holders Type HPE...../IS  
Applicant: Hawker Electronics Limited

## Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
3419	1 of 1	A	01 Dec 17	General Arrangement and Marking – Holder Type HPE23
3420	1 of 1	A	01 Dec 17	General Arrangement and Marking – Holder Type HPE23/P
3455	1 of 1	A	01 Dec 17	General Arrangement and Marking – Holder Types HPE5, HPE7, HPE8, HPE12, HPE13 and HPE22
3456	1 of 1	A	01 Dec 17	General Arrangement and Marking – Holder Type HPE14

## Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
3419	1 of 1	A	25 Feb 19	General Arrangement and Marking – Holder Type HPE23
3420	1 of 1	A	25 Feb 19	General Arrangement and Marking – Holder Type HPE23/P
3455	1 of 1	A	25 Feb 19	General Arrangement and Marking – Holder Types HPE5, HPE7, HPE8, HPE12, HPE13 and HPE22
3456	1 of 1	A	25 Feb 19	General Arrangement and Marking – Holder Type HPE14

## Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
3419	1 of 1	B	14 Jun 22	Intrinsically Safe HPE23 Electrode Holder (Zone 0)
3420	1 of 1	B	14 Jun 22	Intrinsically Safe HPE23/P Electrode Holder (Zone 0)
3455	1 of 1	B	14 Jun 22	Intrinsically Safe Electrode Holders (Zone 0)
3456	1 of 1	B	14 Jun 22	Intrinsically Safe HPE14 Electrode Holder (Zone 0)

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