UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UKCA UK TYPE EXAMINATION CERTIFICATE**

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 22UKEX1138X** Issue: **0**

4 Product: **Holders Type HPE...../IS**

5 Manufacturer: **Hawker Electronics Ltd.**

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

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:

Holder Type HPE5/X/IS:

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

All other models

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

Name: M Halliwell
Title: Director of Operations

SCHEDULE

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13 **DESCRIPTION OF PRODUCT**

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	Ii = 100mA Ci = 0 Li = 0
All other holder types	Ci = 0 Li = 0

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14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	26 July 2022	R80117578A	The release of the prime certificate.

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.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)**

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 **PRODUCTION CONTROL**

17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders

Certificate Annexe

Certificate Number:	**CSAE 22UKEX1138X**
Product:	**Holders Type HPE...../IS**
Manufacturer:	**Hawker Electronics Ltd.**

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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)