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 17.0066X

Issue No: 0

Certificate history:
Issue No. 0 (2017-12-01)

Status: **Current**

Date of Issue: **2017-12-01**

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

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

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking:

Holder Type HPE5/X/IS	All other holder types
Ex ia IIC T6 Ga	Ex ia IIC T4 Ga
Ta = -20°C to +40°C	Ta = -20°C to +80°C

Approved for issue on behalf of the IECEx Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:
(for printed version)

Date:

2017-12-01

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.

Certificate issued by:

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

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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 electrical 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR17.0249/00

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 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.

Refer to the Annexe for Type Identification and Safety Parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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 IEC 60079-11:2011. This shall be taken into account in any equipment installation.
2. Refer to the Annexe for additional Conditions.

Annex:

IECEx SIR 17.0066X Annexe Issue 0.pdf

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	

Additional Specific Conditions of Use

1. Refer to the certificate
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
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.
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.

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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.
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.
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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