IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx SIR 09.0006U**

Status: **Current**

Issue No: 4

Certificate history:
Issue 3 (2021-03-31)
Issue 2 (2018-03-06)
Issue 1 (2012-10-10)
Issue 0 (2009-03-13)

Date of Issue: 2021-09-17

Applicant: **International Metal Engineering Pte Limited**
Blk 13 Toa Payoh Lorong 8
#06-05 Braddell Tech Park
Singapore
319261
Singapore

Ex Component: Series 1080 and 1088 Instrument Housings

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof and Dust**

Marking: Ex db IIC Gb
Ex tb IIIC Db
Ta = -40°C to 85°C

IP68

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

Position: **Certification Manager**

Signature: (for printed version)

Date:

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 www.iecex.com or use of this QR Code.

Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom

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Certificate No.: **IECEx SIR 09.0006U**

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Manufacturer: **International Metal Engineering Pte Limited**
Blk 13 Toa Payoh Lorong 8
#06-05 Braddell Tech Park
Singapore
319261
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Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

GB/CSAE/ExTR21.0083/00
GB/SIR/ExTR09.0031/00
GB/SIR/ExTR12.0243/00
GB/SIR/ExTR18.0014/00
GB/SIR/ExTR21.0026/00

Quality Assessment Report:

GB/SIR/QAR07.0040/08

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Ex Component(s) covered by this certificate is described below:

The 1080 Instrument Housings are cylindrical single compartment enclosures comprising a base and cover with a maximum internal volume of 140 cubic cm. The enclosures are manufactured from cast aluminium or stainless steel. Some cast aluminium versions are painted with silver paint or epoxy paint. The cover is blank and fitted with a stainless steel chain which is attached to the cover and base. Each enclosure may have a number of conduit openings and sizes Both enclosures have passed a 4 times reference pressure test of 53 bar. Therefore a routine pressure test is not required. See table in the annexe.
The 1088 Instrument Housings are similar to the 1080 series with the exception of the internal volume which is 200 cubic cm and is not painted. See table in the annexe.

Refer to the Annexe for additional information and Conditions of Manufacture.

SCHEDULE OF LIMITATIONS:

1. Warning: potential electrostatic charging hazard - see instructions

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 4, recognises the following changes; refer to the certificate annex to view a comprehensive history:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Edition 6.0 is replaced by IEC 60079-0:2017 Edition 7.0,
2. Amendment to the markings and schedule of limitations to update/address electrostatic assessment for build-up of electrostatic charge for Group III.

Annex:

IECEx SIR 09.0006U Iss 4 Annexe.pdf

Annexe to: **IECEx SIR 09.0006U Issue 4**

Applicant: **International Metal Engineering Pte Limited**

Apparatus: **Series 1080 and 1088 Instrument Housings**

1080 Instrument Housings

IME Part number 1080W **IME Part number 1080S** **IME Part number 1080A**			**IME Part number 1080WW** **IME Part number 1080SW**		
XX	**T1 Thread Size**	**T2 Thread Size**	**XX**	**T1 Thread Size**	**T2 Thread Size**
01	¾" NPT	½" NPT	01	¾" NPT	½" NPT
02	½" NPT	½" NPT	02	½" NPT	½" NPT
08	M20 x 1.5	½" NPT	08	M20 x 1.5	½" NPT
09	½" NPT	¾" NPT	IME Model	Description	
10	¾" NPT	M20 x 1.5	1080ST	Stainless steel	
11	½" NPT	M20 x 1.5	1080SM	Stainless steel	
12	M20 x 1.5	M20 x 1.5	1080SW	Stainless steel	
33	¾" NPT	¾" NPT	1080AT	Silver painted low copper aluminium	
36	M20 x 1.5	¾" NPT	1080AM	Silver painted low copper aluminium	
			1080WT	Epoxy painted low copper aluminium	
			1080WM	Epoxy painted low copper aluminium	
			1080WW	Epoxy painted low copper aluminium	

1088 Instrument Housings

IME Part number 1088ST			**IME Part number 1088-008**		
XX	**T1 Thread Size**	**T2 Thread Size**	**XX**	**T1 Thread Size**	**T2 Thread Size**
01	¾" NPT	½" NPT	01	¾" NPT	½" NPT
02	½" NPT	½" NPT	02	½" NPT	½" NPT
08	M20 x 1.5	½" NPT	08	M20 x 1.5	½" NPT
09	½" NPT	¾" NPT	09	½" NPT	¾" NPT
10	¾" NPT	M20 x 1.5	10	¾" NPT	M20 x 1.5
11	½" NPT	M20 x 1.5	11	½" NPT	M20 x 1.5
12	M20 x 1.5	M20 x 1.5	12	M20 x 1.5	M20 x 1.5
14	M24 x 1.5	½" NPT	14	M24 x 1.5	½" NPT
15	M24 x 1.5	M24 x 1.5	15	M24 x 1.5	M24 x 1.5
17	¾" NPT	M24 x 1.5	17	¾" NPT	M24 x 1.5
19	½" NPT	M24 x 1.5	19	½" NPT	M24 x 1.5
20	M24 x 1.5	M20 x 1.5	20	M24 x 1.5	M20 x 1.5
33	¾" NPT	¾" NPT	33	¾" NPT	¾" NPT
35	M20 x 1.5	M24 x 1.5	35	M20 x 1.5	M24 x 1.5
36	M20 x 1.5	¾" NPT	36	M20 x 1.5	¾" NPT

IME Model	Description
1088ST	1088 stainless steel, electro polished Enclosure

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Hawarden Deeside CH5 3US, UK.

Full certificate change history

Issue 1 – this Issue introduced the following change:

1. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest IEC 60079 series of standards, the documents previously listed, IEC 60079-0:2007-10 and IEC 61241-1:2004, were replaced by those currently listed.

Issue 2 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings were updated accordingly to recognise the new standards, and a Schedule of Limitations was added.
2. Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in IEC 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Issue 3 – this Issue introduced the following changes:

1. Remove all references to BSP thread types in the certificate product description and drawings, in relation to cable entry options, resulting in the removal of two schedule of limitations in the certificate.
2. Replace current external label with an internal label.

Issue 4 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Edition 6.0 is replaced by IEC 60079-0:2017 Edition 7.0.
2. Amendment to the markings and schedule of limitations to update/address electrostatic assessment for build-up of electrostatic charge for Group III.

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