1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX1023U** Issue: **5**

4 Component: **Series 1080 and 1088 Instrument Housings**

5 Applicant: **International Metal Engineering Pte Ltd**

6 Address: Blk 13 Toa Payoh Lorong 8
#06-05 Braddell Tech Park
Singapore
319261

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

8 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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.

9 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 60079-1:2014 EN 60079-31:2014

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

II 2GD
Ex db IIC Gb Ta = -40°C to 85°C
Ex tb IIIC Db
IP68

Project Number 80086183

Signed: J A May

Title: Director of Operations

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6812 AR, Arnhem,
The Netherlands

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13 **DESCRIPTION OF COMPONENT**

The 1080 Instrument Housings are cylindrical single compartment enclosures comprising a base and cover with a maximum internal volume of 140 cm³. 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 below: -

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	

The 1088 Instrument Housings are similar to the 1080 series with the exception of the internal volume which is 200 cm³ and is not painted. See table below: -

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

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

Variation 1 - This variation introduced the following change:

i. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest EN 60079 series of standards, the documents previously listed in section 9, EN 60079-0:2006 EN EN 61241-0:2004 and EN 61241-1:2004, were replaced by those currently listed reference to IEC 60079-0:2007 was also removed.

Variation 2 - This variation introduced the following changes:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Ed.6, EN 60079-1:2007 and EN 60079-31:2009 were replaced by EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014, the markings were updated accordingly to recognise the new standards, and a Schedule of Limitations was added.
ii. Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in EN 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Variation 3 - This variation introduced the following change:

i. 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.
ii. Replace current external label with an internal label.
iii. Correction of a typographical error in the “Assessment Standards” section from EN 60079-0:2012+A1:2013 to EN 60079-0:2012+A11:2013.

Variation 4 - This variation introduced the following change:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012+A1:2013 is replaced by EN IEC 60079-0:2018.
ii. Amendment to the markings and schedule of limitations to update/address electrostatic assessment for build-up of electrostatic charge for Group III.
iii. Notified body number change from XXXX/nnnn to 2813 on label drawings.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	27 February 2009	R51A16938A	The release of the prime certificate.
1	02 October 2012	R28321A/00	The introduction of Variation 1.

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Issue	Date	Report number	Comment
2	06 March 2018	R70133545A	This Issue covers the following changes: • EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)* • The introduction of Variation 2.
3	15 October 2019	0565	Transfer of certificate Sira 09ATEX1023U from Sira Certification Service to CSA Group Netherlands B.V..
4	31 March 2021	R80054441A	This Issue covers the following changes: • The introduction of Variation 3. • A standard referenced in the text of Variation 2 i was amended to correct a typographical error.
5	17 September 2021	R80086184A	The introduction of Variation 4

15 **SCHEDULE OF LIMITATIONS**

15.1 Warning: potential electrostatic charging hazard - see instructions.

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 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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