1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX1082U** Issue: **6**

4 Component: **V2081, 7092 & 8092 Series Instrument Enclosures & Junction Boxes**

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

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 60079-0:2012+A11:2013 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 2 G D
Ex db IIC Gb
Ex tb IIIC Db
Ta -40°C to +85°C

Project Number 80054441

Signed: J A May

Title: Director of Operations

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13 **DESCRIPTION OF COMPONENT**

The V2081, 7092 & 8092 Series Instrument Enclosures & Junction Boxes, examples of which are detailed in Figures 1 to 3, are cylindrical single compartment enclosures comprising a base and threaded cover with a maximum internal volume of 610 cm^3. The enclosures are manufactured from stainless steel or cast aluminium that may have an epoxy paint coating. The cover may be blind or contain a circular tempered glass window. Each enclosure may have a number of conduit openings and sizes as detailed in the Table 1.

The 8092WT product range may optionally comprise of a T079 base enclosure arrangement which utilises an existing 8092WT enclosure base having four additional blind M5 mounting holes located at the bottom entry and two M8 mounting holes. The T1 cable entry is located on a surface angled at 2 degrees on the existing enclosure base, whereas on the T079 base enclosure, the angle is not present, to allow entry devices fitted to sit perpendicular and enable conductive contact. The cover remains unchanged.

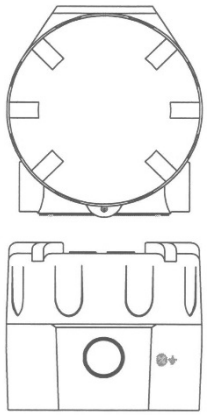

Figure 1 – Model V2081

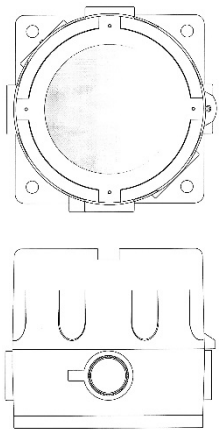

Figure 2 – Model 7092

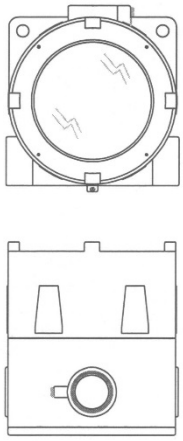

Figure 3 – Model 8092

Table 1. Design Options

Model	No. of entries	½" NPT	¾" NPT	1" NPT	M20 x 1.5	M25 x 1.5	M27 x 1.5	None
V2081	3	**ü**	**ü**	X	X	X	X	**ü**
7092	1	**ü**	**ü**	X	**ü**	X	X	**ü**
7092	2 @ 90°	**ü**	**ü**	X	**ü**	X	X	**ü**
7092	2 @ 180°	**ü**	**ü**	X	**ü**	X	X	**ü**
7092	3	**ü**	**ü**	X	**ü**	X	X	**ü**
7092	4	**ü**	**ü**	X	**ü**	X	X	**ü**
8092	3	**ü**	**ü**	**ü**	**ü**	**ü**	**ü**	**ü**

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V2081 Series:	Model V20815E6	-	cast aluminium with blind cover *
	Model V20816E6	-	cast aluminium with window cover *
7092 Series:	Model 7092WM	-	cast aluminium with window cover *
	Model 7092WT	-	cast aluminium with window cover
	Model 7092CM	-	cast aluminium with window cover *
	Model 7092CT	-	cast aluminium with window cover
	Model 7092AM	-	cast aluminium with blind cover *
	Model 7092AT	-	cast aluminium with blind cover
	Model 7092NM	-	cast aluminium with blind cover *
	Model 7092NT	-	cast aluminium with blind cover
	Model 7092TM	-	stainless steel with blind cover *
	Model 7092TT	-	stainless steel with blind cover
	Model 7092SM	-	stainless steel with window cover *
	Model 7092 ST	-	stainless steel with window cover
8092 Series:	Model 8092AT	-	cast aluminium with blind cover
	Model 8092AM	-	cast aluminium with blind cover *
	Model 8092WT	-	cast aluminium with window cover
	Model 8092WM	-	cast aluminium with window cover *
	Model 8092TT	-	stainless steel with blind cover
	Model 8092TM	-	stainless steel with blind cover *
	Model 8092ST	-	stainless steel with window cover
	Model 8092SM	-	stainless steel with window cover *

* Denotes that an adhesive label is fitted detailing the threadform when a metric threadform is selected.

Model Nos. 7092WT, 7092WM, 7092AT & 7092AM are coated with epoxy paint.
Model Nos. 7092CT, 7092CM, 7092NM & 7092NT are uncoated.

The enclosures meet the requirements of IP 66

Variation 1 - This variation introduced the following change:

i. The recognition of the introduction of 1" NPT, M25 and M27 cable entries in the 8092 range of enclosures, Table 1 was amended to reflect this.

Variation 2 - This variation introduced the following change:

i. Following appropriate re-assessment to demonstrate compliance with the requirements of later standards, the following, previously listed documents, EN 60079-0:2006, EN 61241-0:2006 and EN 61241-1:2004, were replaced by those currently specified, the marking was amended accordingly.

Variation 3 - This variation introduced the following change:

i. The addition of an alternative option within the 8092WT product range, which introduces the T079 base enclosure arrangement. Documents 8092-108-XX and 8092WT-XX T079 were introduced to reflect this modification, the product description being amended accordingly.

Variation 4 - This variation introduced the following changes:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012, 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.

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Variation 5 - 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	25 April 2008	R51A16939A	The release of the prime certificate
1	12 November 2010	R23337A/00	The introduction of Variation 1.
2	14 November 2012	R28660A/00	The introduction of Variation 2.
3	09 March 2016	R70055508A	The introduction of Variation 3.
4	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 4.
5	15 October 2019	0562	Transfer of certificate Sira 08ATEX1082U from Sira Certification Service to CSA Group Netherlands B.V..
6	31 March 2021	R80054441A	This Issue covers the following changes: • The introduction of Variation 5. • A standard referenced in the text of Variation 4 i was amended to correct a typographical error.

15 SCHEDULE OF LIMITATIONS

15.1 The window cement has an upper service temperature limit of +95°C.

15.2 The window has an upper service temperature limit of +85°C.

15.3 The contents of the V2081, 7092 & 8092 Series Instrument Enclosures & Junction Boxes may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that at each area has a minimum dimension in any direction of 12.5 mm.

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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.

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