



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 08ATEX1082U** Issue: **0**

4 Component: **V2081, 7092 & 8092 Series Instrument Housings & 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 are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 60079-0:2006 EN 60079-1:2007 EN 61241-0:2006 EN 61241-1:2004

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 special conditions for safe use are listed in the schedule to this certificate.

11 This EC 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 d IIC
Ex tD A21 IP66
Ta -40°C to +85°C

C Ellaby
Certification Officer

Project Number 51A16939
C. Index 04

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SCHEDULE

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13 DESCRIPTION OF COMPONENT

The V2081, 7092 & 8092 Series Instrument Housings & Junction Boxes, examples of which are detailed in Figures 1 - 3, are cylindrical single compartment enclosures comprising a base and threaded cover with a maximum internal volume of 610 cm³. 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.

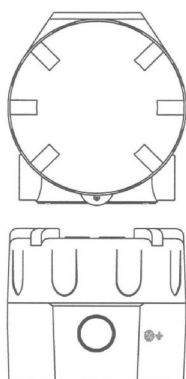


Figure 1 – Model V2081

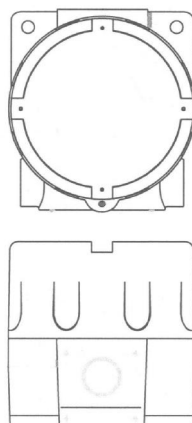


Figure 2 – Model 7092

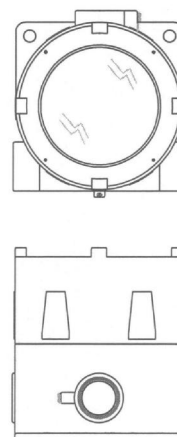


Figure 3 – Model 8092

Table 1. Design Options

Model no.	No. of entries	1/2" NPT	3/4" NPT	1/2" BSP	M20 x 1.5	None
V2081	3	ü	ü	X	X	ü
7092	1	ü	ü	ü	ü	ü
7092	2 @ 90°	ü	ü	ü	ü	ü
7092	2 @ 180°	ü	ü	ü	ü	ü
7092	3	ü	ü	ü	ü	ü
7092	4	ü	ü	ü	ü	ü
8092	3	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.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	25 April 2008	R51A16939A	The release of prime certificate.

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15 SPECIAL CONDITIONS FOR SAFE USE

- 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 Housings & 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.

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 CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.