



# 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](http://www.iecex.com)

Certificate No.: **IECEX SIR 08.0025U** issue No.: **0** Certificate history: \_\_\_\_\_

Status: **Current**

Date of Issue: **2008-05-06** Page 1 of 4

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

Electrical Apparatus: **V2081, 7092 & 8092 Series Instrument Enclosures & Junction Boxes**  
Optional accessory:

Type of Protection: **Flameproof**

Marking: **Ex d IIC  
Ex tD A21 IP66  
Ta -40°C to +85°C**

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: **Certification Officer**

Signature:  
(for printed version)

Date: **2008-05-06**

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](http://www.iecex.com).

Certificate issued by:  
**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom



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

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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:

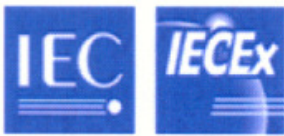
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/SIR/ExTR08.0044/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0040/00](#)



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## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The V2081, 7092 & 8092 Series Instrument Housings & Junction Boxes are cylindrical single compartment enclosures comprising a base and threaded cover with a maximum internal volume of 610 cm<sup>3</sup>. 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.

**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	√	√	X	X	√
7092	1	√	√	√	√	√
7092	2 @ 90°	√	√	√	√	√
7092	2 @ 180°	√	√	√	√	√
7092	3	√	√	√	√	√
7092	4	√	√	√	√	√
8092	3	√	√	√	√	√

CONDITIONS OF CERTIFICATION: NO



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## Additional information:

### 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

Model Nos. 7092WT, 7092WM, 7092AT & 7092AM are coated with epoxy paint.

Model Nos. 7092CT, 7092CM, 7092NM & 7092NT are uncoated.

### 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

The user/installer shall observe the following special points for noting:

1. The window cement has an upper service temperature limit of +95°C.
2. The window has an upper service temperature limit of +85°C.
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.