



# 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.:  issue No.:

Status:

Date of Issue: **2010-08-05** Page 1 of 4

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

Electrical Apparatus: **7117 \*\* and 8117 \*\* Ranges of Enclosures**  
*Optional accessory:*

Type of Protection: **Flameproof and Dust**

Marking: **Ex d IIC Gb**  
**Ex tb IIIC Db IP68**


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

C Ellaby

*Position:*

Certification Officer

*Signature:  
(for printed version)*

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2010-08-05

*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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION



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Manufacturer: **International Metal Engineering Pte Ltd**  
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:

- IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0:Equipment - General requirements  
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6
- IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition: 1

*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/ExTR10.0155/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0040/01](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### **7117 \*\*, Range of Enclosures**

The 7117 \*\* instrument enclosure, which has a maximum internal volume of 780 cm<sup>3</sup>, are cylindrical, single compartment enclosures comprising a base and cover. The enclosures are manufactured from stainless steel or cast aluminium with an optional epoxy paint finish. The enclosure covers may contain a circular tempered glass window. Each 7117 enclosure may have up to four conduit openings, with entry sizes selected from ½" NPT, ¾" NPT, 1" NPT, ½" BSP, M20 x 1.5 or M25 x 1.5.

#### **8117 \*\*, Range of Enclosures**

The 8117 \*\* series instrument enclosure, which has a maximum internal volume of 990 cm<sup>3</sup>, are cylindrical single compartment enclosures comprising a base and cover. The enclosures are manufactured from stainless steel or cast aluminium with an epoxy paint finish. The enclosure covers may contain a circular tempered glass window. Each 8117 enclosure may have up to three conduit openings with entry sizes selected from ½" NPT, ¾" NPT, 1" NPT, ½" BSP, M20 x 1.5 or M25 x 1.5.

#### **Special Point For Noting**

These component enclosures shall only be used within the temperature range of -40°C to +85°C.

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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**EQUIPMENT(continued):**

7117 ** Range		
Reference	Material of construction	Option
7117 ST	Stainless steel	Window cover
7117 SM	Stainless steel	Window cover
7117 TT	Stainless steel	Blind cover
7117 TM	Stainless steel	Blind cover
7117 WT	Aluminium, epoxy coated	Window cover
7117 WM	Aluminium, epoxy coated	Window cover
7117 AT	Aluminium, epoxy coated	Blind cover
7117 AM	Aluminium, epoxy coated	Blind cover
7117 CT	Aluminium, cast finished	Window cover
7117 CM	Aluminium, cast finished	Window cover
7117 NT	Aluminium, cast finished	Blind cover
7117 NM	Aluminium, cast finished	Blind cover
8117 ** Range		
Reference	Material of construction	Option
8117 ST	Stainless steel	Window cover
8117 SM	Stainless steel	Window cover
8117 TT	Stainless steel	Blind cover
8117 TM	Stainless steel	Blind cover
8117 WT	Aluminium, epoxy coated	Window cover
8117 WM	Aluminium, epoxy coated	Window cover
8117 AT	Aluminium, epoxy coated	Blind cover
8117 AM	Aluminium, epoxy coated	Blind cover