



# 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 07.0111U** issue No.:3  
Status: **Current**  
Date of Issue: **2012-10-10** Page 1 of 5

Certificate history:  
Issue No. 3 (2012-10-10)  
Issue No. 2 (2009-9-28)  
Issue No. 1 (2009-2-19)  
Issue No. 0 (2008-4-17)

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

Electrical Apparatus: **8080, 8075, 8066 and 7080 Series Instrument Enclosures and Junction Boxes**  
Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking: **Stainless Steel Only**  
**Ex d I Mb**

**Stainless Steel or Aluminium**  
**Ex d IIC Gb**  
**Ex tb IIIC Db IP68**  
**Ta = -40°C to +85°C**

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

Position: **Deputy Certification Manager**

Signature:  
(for printed version)

Date:

2012-10-10

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



# IECEX Certificate of Conformity

Certificate No.: IECEX SIR 07.0111U

Date of Issue: 2012-10-10

Issue No.: 3

Page 2 of 5

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 : 2011</b> Edition: 6.0	Explosive 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 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR08.0035/00  
GB/SIR/ExTR12.0243/00

GB/SIR/ExTR08.0166/00

GB/SIR/ExTR09.0142/00

##### Quality Assessment Report:

GB/SIR/QAR07.0040/00

GB/SIR/QAR07.0040/01

GB/SIR/QAR07.0040/02



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0111U

Date of Issue: 2012-10-10

Issue No.: 3

Page 3 of 5

### Schedule

**EQUIPMENT:**

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

The 8080, 8075, 8066 and 7080 Series Instrument Enclosures are cylindrical single compartment enclosures comprising a base and cover with a maximum internal volume of 280 cm<sup>3</sup>. The enclosures are manufactured from cast aluminium or stainless steel. Some cast aluminium versions are painted with epoxy paint. The cover may be blank or have a window fitted. Each enclosure may have a number of conduit openings and sizes. See table below:

Model range	No. of entries	Size of thread entries					
		1/2" NPT	3/4" NPT	1/2" BSP	M16 x 2 (not a thru hole)	M20 x 1.5	None
8080	3	X	X	X	X	X	X
8075	3	X	X	X	X	X	X
8066	3	X	X	X		X	X
7080	1	X	X	X		X	X
7080	2 @ 90°	X	X	X		X	X
7080	2 @ 180°	X	X	X		X	X
7080	3	X	X	X		X	X
7080	4	X	X	X		X	X
8066	3	X	X	X		X	X

**CONDITIONS OF CERTIFICATION: NO**



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0111U

Date of Issue: 2012-10-10

Issue No.: 3

Page 4 of 5

## EQUIPMENT(continued):

### Design Options

Description	Model nos.
Made of cast aluminium with blind cover	8080AT, 8075AT, 7080AT, 7080NT
Made of cast aluminium with blind cover	8080AM*, 8075AM*, 7080AM*, 7080NM*
Made of cast aluminium with glass window cover	8080WT, 8075WT, 8066PD*, 7080WT, 7080CT
Made of cast aluminium with glass window cover	8080WM*, 8075WM*7080WM*, 7080CM*
Made of stainless steel with blind cover	8080TT, 8075TT, 7080TT
Made of stainless steel with blind cover	8080TM*, 8075TM*, 7080TM*
Made of stainless steel with glass window cover	8080ST, 8075 ST, 7080ST
Made of stainless steel with glass window cover	8080SM*, 8075SM*, 7080SM*
Made of 2.6" Aluminium that has a blind cover	8066PB*

Models with an asterisk (\*) denote that an adhesive metric label is required when a metric thread is selected.

The 7080WT, 7080WM, 7080AT and 7080AM are painted with an epoxy paint where the 7080CT, 7080CM, 7080NM and 7080NT are not painted.

### Condition of Manufacture

The 8080, 8075, 8066 and 7080 Series Instrument Enclosures and Junction Boxes, which are made from cast aluminium and fitted with a window assembly, shall be subjected to a routine overpressure test of 17.2 bar for at least 10 s as required by clause 16 of IEC 60079-1. There shall be no leakage, permanent deformation or damage.



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0111U

Date of Issue: 2012-10-10

Issue No.: 3

Page 5 of 5

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

<b>Issue 1 – this Issue introduced the following changes:</b>	
1.	The addition of a new enclosure size to range, 8066PD, the description being modified accordingly.
2.	The extension of ambient temperature range from $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ to $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ .
3.	The marking of the products was corrected by the removal of T6, (85°C) and T85°C from the certificate and affected labels.
4.	Minor modification to two drawings of the 8080 enclosure base.
<b>Issue 2 – this Issue introduced the following changes:</b>	
1.	The existing range was extended to include the IME Model 8066PB - 2.6" Aluminium Unit that has a blind cover.
<b>Issue 3 – this Issue introduced the following changes:</b>	
1	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, IEC 60079-0:2004 Ed 4, IEC 61241-0:2004 Ed 1 and IEC 61241-1:2004 Ed 1, were replaced by those currently listed, the markings were updated accordingly