



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

Certificate No.: IECEx SIR 07.0111U issue No.:4

Status: **Current**

Date of Issue: **2018-03-06** Page 1 of 4

Certificate history:
Issue No. 4 (2018-3-6)
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

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

Type of Protection: **Flameproof and Dust**

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

Stainless Steel or Aluminium
Ex db IIC Gb
Ex tb III C 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)*

C. Ellaby

2018-03-06

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
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **International Metal Engineering Pte Limited**
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#06-05 Braddell Tech Park
Singapore 319261
Singapore

Additional 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 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	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/ExTR18.0014/00

GB/SIR/ExTR09.0142/00

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 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 cm³. 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 in the Annexe:

Refer to the Annexe for additional information, Schedule of Limitations and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: NO

Refer to the Annexe for the Schedule of Limitations



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

This issue, Issue 4, recognises the following changes; refer to the certificate annex to view a comprehensive history:

Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings were updated accordingly to recognise the new standards, and a Schedule of Limitations was added.

Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in IEC 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.

Annexe to: IECEx SIR 07.0111U Issue 4

Applicant: International Metal Engineering Pte Limited



Apparatus: 8080, 8075, 8066 and 7080 Series Instrument Enclosures and Junction Boxes

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

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.

Schedule of Limitations

- i. When this product is certified as Ex equipment, the label for the Ex component (external to the enclosure) shall be removed, in accordance with IEC 60079-1 Annex D.8.
- ii. External thread types other than metric or NPT are not permitted as an option for cable glands in field wiring installations. Therefore, the user shall ensure that no such cable glands are installed in the enclosure entries.

Conditions of Manufacture

- i. 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.

Date: 06 March 2018

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Form 9530 Issue 1

Sira Certification Service

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Annexe to: IECEx SIR 07.0111U Issue 4

Applicant: International Metal Engineering Pte Limited

Apparatus: 8080, 8075, 8066 and 7080 Series Instrument Enclosures and Junction Boxes



Full certificate change history

Issue 1 – this Issue introduced the following changes:	
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.
Issue 2 – this Issue introduced the following change:	
1.	The existing range was extended to include the IME Model 8066PB - 2.6" Aluminium Unit that has a blind cover.
Issue 3 – this Issue introduced the following change:	
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
Issue 4 – this Issue introduced the following changes:	
1	Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings were updated accordingly to recognise the new standards, and a Schedule of Limitations was added.
2	Other external thread types (other than metric or NPT) are not permitted as an option for cable glands in field wiring installations in IEC 60079-1:2014 Annex C.2.2, therefore a specific condition of use is added to this certificate.