



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX1331U** Issue: **3**

4 Component: **8080, 8075, 8066 & 7080 Series Instrument Enclosures & 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:

IEC 60079-0:2011 Ed 6 EN 60079-1: 2007 EN 60079 -31:2009

IEC 60079-0:2011 Ed 6 was used in place of EN 60079-0:2009 on the basis of The latest Technical Knowledge.

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:

Stainless Steel only



I M2
Ex d I Mb

or

Stainless Steel or Aluminium



II 2 G D
Ex d IIC Gb Ta = -40°C to +85°C
Ex tb IIIC Db IP68

Project Number 28321

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF COMPONENT

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 below: -

| Model range | No. of entries | Size of thread entries | | | | | |
|-------------|----------------|------------------------|--------|--------|---------------------------|-----------|------|
| | | ½" NPT | ¾" NPT | ½" 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

8080 Series

Model 8080AT, made of cast aluminium with blind cover
Model 8080AM*, made of cast aluminium with blind cover
Model 8080WT, made of cast aluminium with glass window cover
Model 8080WM*, made of cast aluminium with glass window cover
Model 8080TT, made of stainless steel with blind cover
Model 8080TM*, made of stainless steel with blind cover
Model 8080ST, made of stainless steel with glass window cover
Model 8080SM*, made of stainless steel with glass window cover

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

8075 Series

Model 8075AT, made of cast aluminium with blind cover.
Model 8075AM*, made of cast aluminium with blind cover.
Model 8075WT, made of cast aluminium with glass window cover.
Model 8075WM*, made of cast aluminium with glass window cover.
Model 8075TT, made of stainless steel with blind cover.
Model 8075TM*, made of stainless steel with blind cover.
Model 8075ST, made of stainless steel with glass window cover.
Model 8075SM*, made of stainless steel with glass window cover.

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

8066 Series

Model 8066PD*, made of cast aluminium with glass window cover.

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

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Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: info@siracertification.com
Web: www.siracertification.com



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7080 Series

IME Model 7080WM*, made of cast aluminium with glass window cover.
IME Model 7080WT, made of cast aluminium with glass window cover.
IME Model 7080CM*, made of cast aluminium with glass window cover.
IME Model 7080CT, made of cast aluminium with glass window cover.
IME Model 7080AM*, made of cast aluminium with blind cover.
IME Model 7080AT, made of cast aluminium with blind cover.
IME Model 7080NM*, made of cast aluminium with blind cover.
IME Model 7080NT, made of cast aluminium with blind cover.
IME Model 7080TM*, made of stainless steel with blind cover.
IME Model 7080TT, made of stainless steel with blind cover.
IME Model 7080SM*, made of stainless steel with glass window cover.
IME Model 7080ST, made of stainless steel with glass window cover.

The 7080WT, 7080WM, 7080AT and 7080AM are painted with epoxy paint; the 7080CT, 7080CM, 7080NM and 7080NT are not painted. Models with an asterisk (*) denote that an adhesive metric label is required when a metric thread is selected.

8066 Series

IME Model 8066PB* - 2.6" Aluminium Unit that has a blind cover.

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

Variation 1 - This variation introduced the following changes:

- The addition of a new enclosure size to range, 8066PD, the description being modified accordingly.
- The extension of ambient temperature range from $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ to $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$.
- The marking of the products was corrected by the removal of T6, (85°C) and T85°C from the certificate and affected labels.
- Minor modification to two drawings of the 8080 enclosure base.

Variation 2 - This variation introduced the following changes:

- The existing range was extended to include the IME Model 8066PB - 2.6" Aluminium Unit that has a blind cover.

Variation 3 - This variation introduced the following changes:

- 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, EN 60079-0:2006 EN 61241-0:2006 and EN 61241-1:2004, were replaced by those currently listed, the markings in section 12 were updated accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report no. | Comment |
|-------|------------------|------------|---------------------------------------|
| 0 | 17 April 2008 | R51A16897A | The release of the prime certificate. |
| 1 | 16 February 2009 | R51L18979A | The introduction of Variation 1. |
| 2 | 8 September 2009 | R51L20409A | The introduction of Variation 2. |
| 3 | 02 October 2012 | R28321A/00 | The introduction of Variation 3. |

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15 SPECIAL CONDITIONS FOR SAFE USE

None

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.

17.3 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 EN 60079-1. There shall be no leakage, permanent deformation or damage.