



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 07ATEX1331U** Issue: **2**

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:

EN 60079-0: 2006 EN 60079-1: 2007 EN 61241-0: 2006 EN 61241-1: 2004

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
Ex tD A21 IP68
Ta = -40°C to +85°C

or

Stainless Steel or Aluminium



II 2 G D
Ex d IIC
Ex tD A21 IP68
Ta = -40°C to +85°C

Project Number 51L18979
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C Ellaby
Certification Officer

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SCHEDULE

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Sira 07ATEX1331U
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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					
		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

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

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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:

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

Variation 2 - This variation introduced the following changes:

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

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.

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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.

Certificate Annexe

Certificate Number: Sira 07ATEX1331U

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

Applicant: International Metal Engineering Pte Limited



Issue 0

Drawing no:	Sheets	Rev.	Date (Sira Stamp)	Description
8080-102-X-XX	1 of 1	8	14 Mar 08	Aluminium housing
8080-108-X-XX	1 of 1	6	14 Mar 08	Stainless steel housing
8080-003	1 of 1	1	14 Mar 08	'O' ring for cover
See table 2.	1 of 1	1	14 Mar 08	Back up ring
8080-008	1 of 1	1	14 Mar 08	Tempered glass
8080-016-xx	1 of 1	1	14 Mar 08	8080 Aluminium cover assembly
8080-018	1 of 1	0	14 Mar 08	8080 Stainless steel cover assembly
8080-080	1 of 1	1	14 Mar 08	Stycast procedure
8080-202-XX	1 of 1	2	14 Mar 08	8080 Aluminium cover
8080-208	1 of 1	1	14 Mar 08	8080 Stainless steel cover
8080-602-XX	1 of 1	3	15 Apr 08	Nameplate
8080-603-XX	1 of 1	3	15 Apr 08	Nameplate
8080-605-XX	1 of 1	3	15 Apr 08	Nameplate
8080-606-XX	1 of 1	3	15 Apr 08	Nameplate
8080-608-XX	1 of 1	3	15 Apr 08	Nameplate
8080-609-XX	1 of 1	3	15 Apr 08	Nameplate
8080-611-XX	1 of 1	3	15 Apr 08	Nameplate
8080-612-XX	1 of 1	3	15 Apr 08	Nameplate
8075WT-XX	1 of 1	2	14 Mar 08	8075WT aluminium enclosure window assembly
8075WM-XX	1 of 1	2	14 Mar 08	8075WM aluminium enclosure window assembly
8075AT-XX	1 of 1	2	14 Mar 08	8075AT aluminium enclosure blind assembly
8075AM-XX	1 of 1	2	14 Mar 08	8075AM aluminium enclosure blind assembly
8075TT-XX	1 of 1	2	14 Mar 08	8075TT stainless steel enclosure blind assembly
8075TM-XX	1 of 1	2	14 Mar 08	8075TM stainless steel enclosure blind assembly
8075ST-XX	1 of 1	2	14 Mar 08	8075ST stainless steel enclosure window assembly
8075SM-XX	1 of 1	2	14 Mar 08	8075SM stainless steel enclosure window assembly
8075-102-XX	1 of 1	3	14 Mar 08	Aluminium housing
8075-108-XX	1 of 1	3	14 Mar 08	Stainless steel housing
8075-626-XX	1 of 1	3	15 Apr 08	Nameplate
8075-625-XX	1 of 1	3	15 Apr 08	Nameplate
8075-623-XX	1 of 1	3	15 Apr 08	Nameplate
8075-622-XX	1 of 1	3	15 Apr 08	Nameplate
8075-606-XX	1 of 1	3	15 Apr 08	Nameplate
8075-605-XX	1 of 1	3	15 Apr 08	Nameplate
8075-603-XX	1 of 1	3	15 Apr 08	Nameplate
8075-602-XX	1 of 1	3	15 Apr 08	Nameplate
8080WT-XX	1 of 1	2	14 Mar 08	8080WT aluminium enclosure window assembly
8080WM-XX	1 of 1	2	14 Mar 08	8080WM aluminium enclosure window assembly
8080AT-XX	1 of 1	2	14 Mar 08	8080AT aluminium enclosure blind assembly
8080AM-XX	1 of 1	2	14 Mar 08	8080AM aluminium enclosure blind assembly
8080SM-XX	1 of 1	2	14 Mar 08	8080SM stainless steel enclosure window assembly
8080ST-XX	1 of 1	2	14 Mar 08	8080ST stainless steel enclosure window assembly
8080TM-XX	1 of 1	2	14 Mar 08	8080TM stainless steel enclosure blind assembly
8080TT-XX	1 of 1	2	14 Mar 08	8080TT stainless steel enclosure blind assembly
7080-00-xx-xx	1 of 1	3	14 Mar 08	Aluminium junction box with 1 entry

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Sira Certification Service

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

Applicant: International Metal Engineering Pte Limited



Drawing no:	Sheets	Rev.	Date (Sira Stamp)	Description
7080-01-xx-xx	1 of 1	3	14 Mar 08	Aluminium junction box with 2 entries @ 180°
7080-02-xx-xx	1 of 1	3	14 Mar 08	Aluminium junction box with 2 entries @ 90°
7080-03-xx-xx	1 of 1	3	14 Mar 08	Aluminium junction box with 3 entries
7080-04-xx-xx	1 of 1	3	14 Mar 08	Aluminium junction box with 4 entries
7080-00-SS-xx	1 of 1	3	14 Mar 08	Stainless steel junction box with 1 entry
7080-01-SS-xx	1 of 1	3	14 Mar 08	Stainless steel junction box with 2 entries @ 180°
7080-02-SS-xx	1 of 1	3	14 Mar 08	Stainless steel junction box with 2 entries @ 90°
7080-03-SS-xx	1 of 1	3	14 Mar 08	Stainless steel junction box with 3 entries
7080-04-SS-xx	1 of 1	3	14 Mar 08	Stainless steel junction box with 3 entries
7080WM-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box window assembly
7080WT-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box window assembly
7080NT-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box blind assembly
7080NM-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box blind assembly
7080CT-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box window assembly
7080CM-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box window assembly
7080AT-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box blind assembly
7080AM-yy-xx	1 of 1	2	14 Mar 08	Aluminium junction box blind assembly
7080SM-yy-xx	1 of 1	2	14 Mar 08	Stainless steel junction box window assembly
7080ST-yy-xx	1 of 1	2	14 Mar 08	Stainless steel junction box window assembly
7080TM-yy-xx	1 of 1	2	14 Mar 08	Stainless steel junction box blind assembly
7080TT-yy-xx	1 of 1	2	14 Mar 08	Stainless steel junction box blind assembly
7080-655-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-654-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-653-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-652-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-626-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-625-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-623-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-622-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-606-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-605-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-603-yy-xx	1 of 1	3	15 Apr 08	Nameplate
7080-602-yy-xx	1 of 1	3	15 Apr 08	Nameplate
1080-043	1 of 1	1	14 Mar 08	M20 metric label
1080-026	1 of 1	2	14 Mar 08	'O' rings for housings
1080-086	1 of 1	1	14 Mar 08	1080ST cover
1080-102-xx	1 of 1	2	14 Mar 08	1080AT cover

Issue 1

8066PD Enclosure

Drawing no:	Sheets	Rev.	Date (Sira Stamp)	Description
8066-600-xx	1 of 1	0	26 Nov 08	Adhesive Rectangular tag for 8066PD
8066-900	1 of 1	1	26 Nov 08	8066PD Aluminium window cover
8066-901-xx	1 of 1	1	26 Nov 08	8066PD Aluminium housing
8066-902	1 of 1	0	26 Nov 08	8066PD Aluminium window cover assembly
8066PD-xx	1 of 1	2	26 Nov 08	8066PD Aluminium window enclosure assembly

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Certificate Annexe

Certificate Number: Sira 07ATEX1331U
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Instrument Enclosures and Junction Boxes
Applicant: International Metal Engineering Pte Limited



Labels (These drawings show the latest markings that should be applied to the products and replace those previously approved)

Drawing no:	Sheets	Rev.	Date (Sira Stamp)	Description
7080-602-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080WT assembly
7080-605-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080ST assembly
7080-622-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080AT assembly
7080-623-xx-xx	1 of 1	5	19 Jan 09	Lower half tag for 7080AM assembly
7080-625-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080TT assembly
7080-626-xx-xx	1 of 1	5	19 Jan 09	Lower half tag for 7080TM assembly
7080-652-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080CT assembly
7080-653-xx-xx	1 of 1	4	19 Jan 09	Rectangular tag for 7080CM assembly
7080-654-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080NT assembly
7080-655-xx-xx	1 of 1	5	19 Jan 09	Lower half tag for 7080NM assembly
8075-602-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075WT assembly
8075-605-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075ST assembly
8075-622-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075AT assembly
8075-625-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075TT assembly
8075-626-xx	1 of 1	5	19 Jan 09	Lower half tag for 8075TM assembly
8080-602-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080WT assembly
8080-605-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080ST assembly
8080-608-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080AT assembly
8080-611-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080TT assembly
7080-603-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080WM assembly
7080-606-xx-xx	1 of 1	4	27 Nov 08	Rectangular tag for 7080SM assembly
8075-603-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075WM assembly
8075-606-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8075SM assembly
8075-623-xx	1 of 1	5	19 Jan 09	Lower Half tag for 8075AM assembly
8075-626-xx	1 of 1	5	19 Jan 09	Lower Half tag for 8075TM assembly
8080-603-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080WM assembly
8080-606-xx	1 of 1	4	27 Nov 08	Rectangular tag for 8080SM assembly
8080-609-xx	1 of 1	5	19 Jan 09	Lower half tag for 8080AM assembly
8080-612-xx	1 of 1	5	19 Jan 09	Lower half tag for 8080TM assembly
8080-102-x-xx	1 of 1	9	19 Jan 09	8080 Aluminium Housing
8080-108-x-xx	1 of 1	7	19 Jan 09	8080 Stainless Steel Housing

Issue 2

Drawing no:	Sheets	Rev.	Date (Sira Stamp)	Description
8066PB-xx	1 of 1	-	14 Aug 09	8066PB Aluminium blind enclosure assembly
8066-903	1 of 1	1	14 Aug 09	8066PB Aluminium blind cover
8066-601-xx	1 of 1	-	14 Aug 09	Adhesive rec tag for 8066PB

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