



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1141** Issue: **0**

4 Equipment: **5092 Range of Junction Boxes and 6092 Range of Instrument Enclosures**

5 Applicant: **International Metal Engineering PTE Limited**

6 Address: **Blk 13
Toa Payoh Lorong 8
06-05 Braddell Tech Park
Singapore
319261**

7 This equipment and any acceptable variation thereto is 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G D
Ex d IIC T6
Ex tD A21 T85°C IP66
(Ta = -40°C to +70°C)

Project Number 21122
C. Index 04

C Ellaby
Certification Officer

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The 5092 and 6092 series are cylindrical single compartment enclosures with a maximum internal volume of 610 cm³. They comprise a base and threaded cover, are manufactured from stainless steel or cast aluminium and may have an epoxy paint coating. The cover can be blind or may contain a circular tempered glass window. Each enclosure has a number of conduit openings and sizes, as detailed in the tables below. The enclosures are populated with either up to 2 PCBs or 10 x UK3N Phoenix Contact terminals. The maximum power dissipation within the enclosures is 7.5 W.

The part numbers are configured as follows:

IME Part no.: 6092	Code	Enclosure type	
	W	Aluminium enclosure with epoxy finish, window	
	A	Aluminium enclosure with epoxy finish, blind	
	S	Stainless steel enclosure with window	
	T	Stainless steel enclosure with blind cover	
	Code	Label type	
	T	ATEX & IECEx certified	
	M	ATEX & IECEx certified	
	Code	Entry position T1	Entry position T2
	-04	½" NPT	¾" NPT
	-05	½" NPT	½" NPT
	-06	½" NPT	M20 x 1.5
	-07	¾" NPT	¾" NPT
	-08	¾" NPT	½" NPT
	-09	¾" NPT	M20 x 1.5
	-10	½" BSP	¾" NPT
	-11	½" BSP	½" NPT
	-12	½" BSP	M20 x 1.5
	-13	¾" NPT	None
	-14	M20 x 1.5	None
	-16	½" BSP	None
	-17	½" NPT	None
	-18	None	None
	-19	None	¾" NPT
	-20	None	½" NPT
	-21	None	M20 x 1.5
	-22	M20 x 1.5	M20 x 1.5

A typical reference would be 6092WT-04



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IME Part no. 5092	Code	Enclosure type
	W	Aluminium enclosure with epoxy finish, window
	A	Aluminium enclosure with epoxy finish, blind
	C	Aluminium enclosure with cast finish, window
	N	Aluminium enclosure with cast finish, blind
	S	Stainless steel enclosure with window
	T	Stainless steel enclosure with blind cover
	Code	Label type
	T	ATEX & IECEx certified
	M	ATEX & IECEx certified
	Code	Entry configuration
	-00	1 entry, position T3
	-01	2 entries at 180°, position T3 & T4
	-02	2 entries at 90°, position T1 & T3
	-03	3 entries, positions T1, T3 & T4
	-04	4 entries
	Code	Entry size
	-05	½" NPT
	-07	¾" NPT
	-18	None
	-22	M20 x 1.5
	-23	½" BSP
	-24	T1 & T3: ¾" NPT T2 & T4: M20 x 1.5
	-25	M25 x 1.5

A typical reference would be 5092WT-00-05

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	02 August 2010	R21122A/00	The release of prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

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.

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Sira Certification Service

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Certificate Annexe

Certificate Number: Sira 10ATEX1141
Equipment: 5092 Range of Junction Boxes and 6092
Range of Instrument Enclosures
Applicant: International Metal Engineering PTE Limited



Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
5900-100	1 of 1	0	22 Jul 10	Circuit board assembly
5000-100	1 of 1	0	22 Jul 10	Terminal arrangement
5092xx-xx-xx	1 of 1	0	22 Jul 10	5092 Aluminium junction box assembly
5092xx-xx-xx	1 of 1	0	22 Jul 10	5092 Stainless steel junction box assembly
5092-601-xx-xx-xx	1 of 1	0	22 Jul 10	5092 T series nameplate for aluminium
5092-602-xx-xx-xx	1 of 1	0	22 Jul 10	5092 M series nameplate for aluminium
5092-604-xx-xx-xx	1 of 1	0	22 Jul 10	5092 T series nameplate for stainless steel
5092-605-xx-xx-xx	1 of 1	0	22 Jul 10	5092 T series nameplate for stainless steel
6092xx-xx	1 of 1	0	22 Jul 10	6092 Aluminium instrument enclosure
6092xx-xx	1 of 1	0	22 Jul 10	6092 Stainless steel instrument enclosure
6092-601-xx-xx	1 of 1	0	22 Jul 10	6092 T series nameplate for aluminium
6092-602-xx-xx	1 of 1	0	22 Jul 10	6092 M series nameplate for aluminium
6092-604-xx-xx	1 of 1	0	22 Jul 10	6092 T series nameplate for stainless steel
6092-605-xx-xx	1 of 1	0	22 Jul 10	6092 T series nameplate for stainless steel
7092-xx-xx-xx	1 of 1	3	22 Jul 10	7092 Aluminium junction box housing
7092-xx-SS-xx	1 of 1	3	22 Jul 10	7092 Stainless steel junction box housing
8092-003	1 of 1	0	22 Jul 10	8092 Stainless steel blind cover
8092-102-xx	1 of 1	0	22 Jul 10	8092 Aluminium blind cover
8092-202	1 of 1	1	22 Jul 10	8092 Stainless steel window cover assembly
8092-204-xx	1 of 1	1	22 Jul 10	8092 Aluminium window cover assembly

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