



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1200U** Issue: **0**

4 Component: **8117P\* Range of 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 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 60079-0:2009

EN 60079-1:2007

IEC 60079-31:2008

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:



II 2 G D

Ex d IIC Gb

Ex tb IIIC Db IP68

Project Number 19866

C. Index 04

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C Ellaby  
Certification Officer



## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1200U  
Issue 0

#### 13 DESCRIPTION OF COMPONENT

The 8117P\* instrument enclosure, which has a maximum internal volume of 1 800 cm<sup>3</sup>, is a cylindrical, single compartment enclosure comprising a base and cover. The enclosures are manufactured from cast aluminium with an epoxy paint finish. The enclosures cover may be solid or contain a circular tempered glass window. Each enclosure may have up to four conduit openings with entry sizes selected from ½" NPT, ¾" NPT, ½" BSP or M20x1.5.

Ref.	Material	Option
8117PB	Aluminium, epoxy coated	Blind cover
8117PD	Aluminium, epoxy coated	Window 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	02 July 2010	R19866A/00	The release of prime certificate.

#### 15 SPECIAL CONDITIONS FOR SAFE USE

15.1 These component enclosures shall only be used within the temperature range of -40°C to +85°C.

#### 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.

# Certificate Annexe

Certificate Number: Sira 10ATEX1200U  
Component: 8117P\* Range of Enclosures  
Applicant: International Metal Engineering Pte Limited



## Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
1080-023	1 of 1	1	22 Jun 10	M4 x 6 SS earth green screw
1080-043	1 of 1	1	22 Jun 10	M20 Metric label
8080-006	1 of 1	1	22 Jun 10	M4 x 10 SS set screw
8080-007	1 of 1	1	22 Jun 10	Stainless steel rivets
8080-012	1 of 1	1	22 Jun 10	Window cement specification
8080-080	1 of 1	1	22 Jun 10	Window assembly procedure
8117-00x	1 of 1	3	22 Jun 10	8117 Window backup ring
8117-001	1 of 1	2	22 Jun 10	O-ring for window
8117-005	1 of 1	-	22 Jun 10	O-ring for 8117 aluminium housing
8117-008	1 of 1	1	22 Jun 10	8117 Tempered glass
8117-300-xx	1 of 1	3	22 Jun 10	8117PD Aluminium housing
8117-301	1 of 1	4	22 Jun 10	8117PD Aluminium window cover
8117-304	1 of 1	2	22 Jun 10	8117PB Aluminium blind cover
8117-902	1 of 1	-	22 Jun 10	8117PD Aluminium window cover assembly
8117Px-xx	1 of 1	-	22 Jun 10	8117Px Aluminium instrument enclosure assembly
8117-610-xx	1 of 1	-	02 Jul 10	Rectangular, polyester label for 8117PD series – ATEX, IECEx, CSA, FM
8117-611-xx	1 of 1	-	02 Jul 10	Rectangular, polyester label for 8117PB series – ATEX, IECEx, CSA, FM

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## Sira Certification Service

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