



# 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](http://www.iecex.com)

Certificate No.: **IECEX SIR 10.0177X** issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2018-3-6)  
Issue No. 0 (2011-1-14)

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

Applicant: **International Metal Engineering Pte Ltd**  
Blk 13, Toa Payoh Lorong 8  
#06-05 Braddell Tech Park  
319261  
Singapore

Equipment: **92 and 93 series Nipple Union Assembly**  
Optional accessory:

Type of Protection: **Flameproof and Dust**

Marking: Ex db IIC T6 Gb  
Ex tb III C T85 °C Db IP68\*  
(Ta = -40 °C to +70 °C )  
\* Dust protection and IP68 only applicable when probe end meets the special condition of safe use.

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: Deputy Certification Manager

Signature:  
(for printed version)

  
\_\_\_\_\_  
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 Ltd**  
Blk 13, Toa Payoh Lorong 8  
#06-05 Braddell Tech Park  
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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> 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/ExTR11.0001/00

GB/SIR/ExTR18.0013/00

Quality Assessment Report:

GB/SIR/QAR07.0040/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### **92 and 93 Series nipple union assembly**

The 92 and 93 Series nipple union assembly is a stainless steel assembly comprising a nipple union and probe. The probe is retained within the nipple by a spring. The assembly has a 1/2" NPT thread at the probe end and a 1/2" NPT or M20 thread at the leads end. The 92 and 93 series can be fitted to any IECEx approved enclosure offering at least the same level of protection as detailed in the marking section. The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell. For table detailing part numbers, see annex.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

To meet the requirements of IEC 60079-31 and IEC 60529 for degree of protection IP68, the user shall ensure the probe end of the union nipple shall be threaded into a protection tube such as a thermowell to maintain the degree of protection IP68.



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

**This issue, Issue 1, recognises the following change; refer to the certificate annex to view a comprehensive history:**

Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed.5, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-0:2011 Ed.6, IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings and conditions were updated accordingly to recognise the new standards.

**Annexe to:** IECEx SIR 10.0177X      **Issue 1**  
**Applicant:** International Metal Engineering Pte Ltd  
**Apparatus:** 92 and 93 series Nipple Union Assembly



**92 and 93 Series**

Part number	Sensor description	
92	Flameproof union with sensor	
93	Flameproof union with sensor	
	<b>Code</b>	<b>SS316 Sheath, plain Capsule</b>
	TJ	Type J thermocouple, class 1, DIN/IEC 584-2-1992
	TK	Type K thermocouple, class 1, DIN/IEC 584-2-1992
	TT	Type T thermocouple, class 1, DIN/IEC 584-2-1992
	TE	Type E thermocouple, class 1, DIN/IEC 584-2-1992
	TR	Type R thermocouple, class 1, DIN/IEC 584-2-1992
	TS	Type S thermocouple, class 1, DIN/IEC 584-2-1992
	PA	Pt-100 RTD Class A, DIN/IEC 751-1985
	PB	Pt-100 RTD Class B, DIN/IEC 751-1985
	PF	Pt-100 RTD Class A, DIN/IEC 751-1985, 4 wire
	XX	Alternative Temperature Sensor
	<b>Code</b>	<b>No of elements</b>
	S	Single element
	D	Dual element
	<b>Code</b>	<b>Nipple Union Assembly length ("N" Length)</b>
	04	4 Inch
	05	5 Inch
	06	6 Inch
	07	7 Inch
	<b>Code</b>	<b>Thread For Flame Lock</b>
	001	1/2" NPT
	002	M20 x 1.5
	<b>Code</b>	<b>Sensor diameter</b>
	EG	6.4 mm
	MT	6.0 mm
	<b>Code</b>	<b>Sensor "A" length</b>
	L000	Specify "A" length in mm

**Full Certificate Change History**

**Issue 1:**

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2007 Ed.5, IEC 60079-1:2007 Ed.6 and IEC 60079-31:2008 Ed.1 were replaced by IEC 60079-0:2011 Ed.6, IEC 60079-1:2014 Ed.7 and IEC 60079-31:2013 Ed.2, the markings and conditions were updated accordingly to recognise the new standards

**Date:** 06 March 2018

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**Form 9530 Issue 1**

**Sira Certification Service**

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