



EU-TYPE EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Certificate Number: **Sira 10ATEX1349X** Issue: **3**

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

Applicant: **International Metal Engineering Pte Ltd**

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

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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.

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 IEC 60079-0:2018+AC:2020 EN 60079-1:2014+AC:2018 EN 60079-31:2014

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

This EU-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.

The marking of the equipment shall include the following:



II 2GD
Ex db IIC T6 Gb
Ex tb IIIC 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.

Signed: Michelle Halliwell

Title: Director of Operations



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13 DESCRIPTION OF EQUIPMENT

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 ATEX approved enclosure offering at least the same level of protection as detailed in section 12 The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell.

The assemblies have the following part numbers:

Part number	Sensor description	
92	Flameproof union with sensor	
93	Flameproof union with sensor	
	Code	SS316 Sheath, plain Capsule
	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
	Code	No of elements
	S	Single element
	D	Dual element
	Code	Nipple Union Assembly length ("N" Length)
	04	4 h
	05	5 h
	06	6 h
	07	7 h
	Code	Thread For Flame Lock
	001	1/2" NPT
	002	M20 x 1.5
	Code	Sensor diameter
	EG	6.4 mm
	MT	6.0 mm
	Code	Sensor "A" length
	L000	Specify "A" length in mm

Variation 1 - This variation introduced the following change:

- Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2009, EN 60079-1:2007 and EN 60079-31:2009 were replaced by EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31:2014, the markings and conditions were updated accordingly to recognise the new standards.

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Variation 2 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012+A11:2013 and EN 60079-1:2014 were replaced by EN IEC 60079-0:2018+AC:2020 and EN 60079-1:2014+AC:2018 respectively, and the documents were updated accordingly to recognize the new standards.
- ii. Update of drawing 90x-xx-x-Lxxx Rev. 0 to Rev. 1.
- iii. Update of marking plate drawings 1080-204 and 1080-205 from Rev. 1 to Rev. 2.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	14 January 2011	R20362A/00	The release of the prime certificate.
1	06 March 2018	R70133545B	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i> • The introduction of Variation 1.
2	15 October 2019	0568	Transfer of certificate Sira 10ATEX1349X from Sira Certification Service to CSA Group Netherlands B.V.
3	21 September 2022	R80126780A	The introduction of Variation 2.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 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 nipple union shall be threaded into a protection tube such as a thermowell to maintain the degree of protection IP68.
- 15.2 When the temperature of the process medium affects the temperature of the external part of the equipment the latter shall be verified that it does not exceed the rated ambient temperature of the equipment.

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.

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17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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