



EU-TYPE EXAMINATION CERTIFICATE

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **Sira 10ATEX1280X** Issue: **3**

Equipment: **96, 98 and 99 Series Temperature Probe Assemblies & 1080 WL/SL series**

Manufacturer: **International Metal Engineering Pte Ltd**

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

This product 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 No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 item 16.2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-31:2024

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):

99 Series



II 2GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db IP68*
Ta = -40°C to +70°C

98 Series



II 2GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db IP68*
Ta = -40°C to +60°C

96 Series



II 2GD
Ex db IIC T4 Gb
Ex tb IIIC T85°C Db IP68*
Ta = -40°C to +70°C

1080 WL/SL Series Assembly



II 2GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db IP66/68**
Ta = -40°C to +70°C

* Dust protection and IP68 only applicable when probe end meets the Condition of Certification.

** IP66/68 is only met when the associated equipment is similarly rated.

Signed: M Halliwell
Title: Senior Director of Operations
Date: 11 August 2026



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SCHEDULE

EU-Type Examination Certificate Number: Sira 10ATEX1280X **Issue:** 3

Description:

The temperature probe assembly consists of a flameproof nipple union incorporating a probe housing the temperature sensing element. The assembly is intended to be installed in an International Metal Engineering enclosure.

The probe is mechanically secured within the nipple union by means of a spring. The nipple union, probe, and spring are manufactured from stainless steel grade 316.

The probe end of the nipple union is provided with a threaded interface to allow the installation of optional protective accessories, such as a thermowell.

For the 1080 series, the associated equipment is limited to a maximum power dissipation of 3 W.

The nipple union assembly is suitable for installation in the following International Metal Engineering enclosures:

96 Series: 1080SM and 1080WM enclosures (Sira 09ATEX1023U and IECEx SIR 09.0006U)

98 Series: 8080SM and 8080WM enclosures (Sira 08ATEX1227X and IECEx SIR 08.0091X)

99 Series: 1080SM and 1080WM enclosures (Sira 09ATEX1023U and IECEx SIR 09.0006U)

96 Series

PART NO	SENSOR DESCRIPTION		
96TJ	TYPE J THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96TK	TYPE K THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96TT	TYPE T THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96TE	TYPE E THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96TR	TYPE R THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96TS	TYPE S THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992		
96PA	100 OHM PLATINUM RESISTANCE SENSOR, CLASS A, DIN/IEC 751-1985		
96PB	100 OHM PLATINUM RESISTANCE SENSOR, CLASS B, DIN/IEC 751-1985		
96PF	100 OHM PLATINUM PESISTANCE SENSOR, CLASS A, DIN/IEC 751-1985, 4 WIRE		
96xx	TO BE SPECIFIED		
		CODE	NUMBER OF ELEMENTS
		S	SINGLE ELEMENT
		D	DUAL ELEMENT
		CODE	NIPPLE UNION NIPPLE ASSEMBLY ("N" LENGTH)
		04	4 INCH
		05	5 INCH
		06	6 INCH
		07	7 INCH
		CODE	TEMPERATURE TRANSMITTER, ENCLOSURE
		YTA50-A	TEMPERATURE TRANSMITTER IN A COPPER FREE ALUMINUM ENCLOSURE (ATEX only)





PART NO	SENSOR DESCRIPTION		
	YTA50-T	TEMPERATURE TRANSMITTER IN A STAINLESS STEEL ENCLOSURE (ATEX only)	
	YTA70-A	TEMPERATURE TRANSMITTER WITH HART IN A COPPER FREE ALUMINUM ENCLOSURE	
	YTA70-T	TEMPERATURE TRANSMITTER WITH HART IN A STAINLESS STEEL ENCLOSURE	
	8070-A	CERAMIC TERMINAL BLOCK IN A COPPER FREE ALUMINUM ENCLOSURE	
	8070-T	CERAMIC TERMINAL BLOCK IN A STAINLESS STEEL ENCLOSURE	
		CODE	CONDUIT ENTRY
		01	3/4"NPT
		02	1/2"NPT
		08	M20 x 1.5P
		CODE	NIPPLE UNION
		N	93 SERIES(5050-00x-xx-xx)
		U	92 SERIES(54x5-00x)

98 Series

Part number	Sensor description		
98TJ	Type J thermocouple, class 1, DIN/IEC 584-2-1992		
98TK	Type K thermocouple, class 1, DIN/IEC 584-2-1992		
98TT	Type T thermocouple, class 1, DIN/IEC 584-2-1992		
98TE	Type E thermocouple, class 1, DIN/IEC 584-2-1992		
98TR	Type R thermocouple, class 1, DIN/IEC 584-2-1992		
98TS	Type S thermocouple, class 1, DIN/IEC 584-2-1992		
98PA	100 Ohm platinum resistance sensor, class A, DIN/IEC 751-1985		
98PB	100 Ohm platinum resistance sensor, class B, DIN/IEC 751-1985		
98PF	100 Ohm platinum resistance sensor, class A, DIN/IEC 751-1985, 4 wire		
98xx	Alternative temperature sensor		
		Code	Number of elements
		S	Single element
		D	Dual element
		Code	Nipple Union Assembly length ("N" Length)
		04	4 Inch
		05	5 Inch
		06	6 Inch
		07	7 Inch



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Part number	Sensor description			
		Code	8080 Series indicator/ transmitter	
		xxxxxx	As per Sira 08ATEX1227X and IECEx SIR 08.0091X	
		Code	Enclosure material	
		A	Aluminium	
		T	Stainless steel	
		Code	Conduit entry	
		04	¾" NPT	
		05	½" NPT	
		06	M20 x 1.5	
		07	None	

99 Series

PART NO	SENSOR DESCRPTION			
99TJ	TYPE J THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99TK	TYPE K THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99TT	TYPE T THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99TE	TYPE E THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99TR	TYPE R THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99TS	TYPE S THERMOCOUPLE, CLASS 1, DIN/IEC 584-2-1992			
99PA	100 OHM PLATINUM RESISTANCE SENSOR, CLASS A, DIN/IEC 751-1985			
99PB	100 OHM PLATINUM RESISTANCE SENSOR, CLASS B, DIN/IEC 751-1985			
99PF	100 OHM PLATINUM PESISTANCE SENSOR, CLASS A, DIN/IEC 751-1985, 4 WIRE			
99xx	TO BE SPECIFIED			
	CODE	NUMBER OF ELEMENTS		
	S	SINGLE ELEMENT		
	D	DUAL ELEMENT		
	CODE	NIPPLE UNION NIPPLE ASSEMBLY ("N" LENGTH)		
		04	4 INCH	
		05	5 INCH	
		06	6 INCH	
		07	7 INCH	
	CODE	TEMPERATURE TRANSMITTER OR TERMINAL BLOCK		
		XXXXXX	TERMINAL BLOCK / TEMEPERATURE TRANSMITTER	
		CODE	CHOICE OF ENCLOSURE	
		A	ALUMINUM	
		T	STAINLESS STEEL	





PART NO	SENSOR DESCRIPTION	
	CODE	CONDUIT ENTRY
	01	3/4"NPT
	02	1/2"NPT
	08	M20 x 1.5P
	CODE	NIPPLE UNION
	N	93 SERIES (5050-00x-xx-xx)
	U	92 SERIES (54x5-00x)

1080 Series

The 1080 WL/SL Series Assembly utilises the 1080 series instrument housing which is certified as an Ex Component under certificate numbers Sira 09ATEX1023U and IECEx SIR 09.0006U. The Instrument Assembly may be populated with either a ceramic terminal block or an encapsulated transmitter circuit. The maximum power dissipation of the terminal block and transmitter is less than 3 W. It is installed by International Metal Engineering and supplied as a complete assembly. The assemblies have the following part numbers:

IME Part number	Sensor description		
1080WL	1080 ALUMINUM ASSEMBLY		
1080SL	1080 STAINLESS STEEL ASSEMBLY		
	Code	Device specification	
	-xx	Device specification: Any specified terminal block/electronics device with power dissipation ≤ 3.0 W, outer diameter of ≤ 50.0 mm & height of ≤ 30.0 mm	
	-xx	'T1' Thread Size	'T2' Thread Size
	-01	3/4" NPT	1/2" NPT
	-02	1/2" NPT	1/2" NPT
	-08	M20x1.5 P	1/2" NPT
	-09	1/2" NPT	3/4" NPT
	-10	3/4" NPT	M20x1.5 P
	-11	1/2" NPT	M20x1.5 P
	-12	M20x1.5 P	M20x1.5 P
	-33	3/4" NPT	3/4" NPT
	-36	M20x1.5 P	3/4" NPT

Variation 1 - This variation introduced the following changes:

- The introduction of the 1080 Series Device Assembly, the details of which are shown above.

Variation 2 - This variation introduced the following changes:

- The 95 Series has been removed from the certificate.
- The YTA 80 model has been removed from the 96 Series.
- The model designation has been updated from "1080 devices" to "1080 WL/SL series".
- The BSP conduit options have been removed from the product range for all models.
- For the 96 and 99 Series, a nipple union type code has been added to allow selection between 5x45-00x-xx-xx and 5050-00x-xx-xx. The product description has been updated accordingly.





- vi. Administrative updates to model series 96 and 99 product description to align with associated drawings 96xx-x-xx-xxxxxx-xx and 99xx-x-xx-xxxxxx-xx, respectively; not covered by other listed modifications.
- vii. Administrative updates to the markings on drawings 1080-202, 1080-201, 1080-200, 8080-663-A, 8080-663-C, 1080-611, 1080-610, 1080-706, and 1080-703 to align with the associated drawings. These updates are not covered by the other listed modifications.
- viii. Addition of adhesive label drawings 1080-706 and 1080-703, as introduced under the latest issues of Sira 09ATEX1023U and IECEx SIR 09.0006U; used for the 96 and 99 series.
- ix. Administrative updates on drawings: 1080Sx-xx, 1080Wx-xx, 90x-xx-x-Lxxx, 8080xx-xx, 1080WL-XX-XX and 1080SL-XX-XX; not related to other listed modifications.
- x. Restriction of YTA50 model for model series 96; product description, specific conditions, and documentation have been updated accordingly.
- xi. The applicable product standards have been updated to the following editions:
 - a. EN IEC 60079-0:2018
 - b. EN 60079-1:2014
 - c. EN 60079-31:2014
- xii. Update of the 98 Series ambient temperature range to $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +60\text{ }^{\circ}\text{C}$.
- xiii. Update of the 96 Series temperature class to T4.

16 Drawings and documents:

16.1 Technical documents:

Refer to Certificate Annex.

16.2 Associated reports and certificate history:

Issue	Date	Report number	Comment
0	14 January 2011	R20362A/00	The release of prime certificate.
1	19 March 2013	R28247A/00	The introduction of Variation 1
2	15th October 2019	2170	Transfer of certificate Sira 10ATEX1280X from Sira Certification Service to CSA Group Netherlands B.V.. 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>
3	11 August 2026	R80281788A	The introduction of Variation 2

17 Specific conditions of use (denoted by "X" after the certificate number):

- 17.1 96, 98 and 99 Series temperature probe assemblies: 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.
- 17.2 1080 WL/SL Series Assembly: Any electrical device fitted into the 1080 WL/SL Series Assembly shall have power dissipation $\leq 3.0\text{ W}$, an outer diameter of $\leq 50.0\text{ mm}$ and a height of $\leq 30.0\text{ mm}$. The electrical device shall be fitted by International Metal Engineering and supplied as a complete assembly.





- 17.3 The Temperature Transmitter Type YTA50-A, manufactured by Yokogawa Electric Corporation (Certificate No.: KEMA 06 ATEX 0191 X), shall only be connected as follows:
Supply / Output Circuit (Terminals 1 and 2):
This circuit shall only be connected to a certified intrinsically safe circuit with the following maximum values (per circuit)
 $U_i = 30 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0.84 \text{ W}$ or $P_i = 0.75 \text{ W}$; $C_i = 1 \text{ nF}$; $L_i = 10 \text{ }\mu\text{H}$
Sensor Circuit (Terminals 3, 4, 5, and 6):
With the following maximum values (per circuit)
 $U_o = 9.6 \text{ V}$; $I_o = 25 \text{ mA}$; $P_o = 60 \text{ mW}$; $C_o = 2.4 \text{ }\mu\text{F}$; $L_o = 33 \text{ mH}$
Note: The sensor circuit is not infallibly galvanically isolated from the supply/output circuit. However, the galvanic isolation between the two circuits has been verified capable of withstanding a test voltage of 500 Vac for 1 minute.
- 17.4 The 2-Wire Transmitter with HART Protocol Type YTA70-J, manufactured by Yokogawa Electric Corporation (Certificate No.: IECEx KEM 10.0086X, KEMA 10ATEX0027 X), shall only be connected as follows:
Supply / Output Circuit (Terminals 1 and 2):
This circuit shall only be connected to a certified intrinsically safe circuit with the following maximum values:
 $U_i = 30 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0.84 \text{ W}$ or $P_i = 0.75 \text{ W}$; $C_i = 1 \text{ nF}$; $L_i = 0 \text{ }\mu\text{H}$
Sensor Circuit (Terminals 3, 4, 5, and 6):
With the following maximum values (per circuit):
 $U_o = 9.6 \text{ V}$; $I_o = 28 \text{ mA}$; $P_o = 67.2 \text{ mW}$; $C_o = 3.5 \text{ }\mu\text{F}$; $L_o = 35 \text{ mH}$
Note: The sensor circuit is not infallibly galvanically isolated from the supply/output circuit. However, the galvanic isolation between the circuits has been verified capable of withstanding a test voltage of 500 Vac for 1 minute
- 18 **Essential health and safety requirements of Annex II (EHSRs):**
The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.
- 19 **Remarks and additional information:**
The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.
Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.
- 19.1 **Conditions of manufacture:**
None