



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 10.0132X**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2013-04-30\)](#)

[Issue 0 \(2011-01-14\)](#)

Date of Issue: 2026-08-11

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

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

Optional accessory:

Type of Protection: **Flameproof 'd', Dust Enclosure 't'**

Marking:

Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP68* (Ta = -40°C to +70°C) (99 Series)	Ex db IIC T4 Gb Ex tb IIIC T85°C Db IP68* (Ta = -40°C to +70°C) (96 Series)
Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP68* (Ta = -40°C to +60°C) (98 Series)	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/68** (Ta = -40°C to +70°C) 1080 WL/SL Series Assembly
* 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.	

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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

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

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 equipment 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

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with 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 Reports:

GB/SIR/ExTR11.0001/00

GB/SIR/ExTR13.0071/00

GB/SIR/ExTR26.0075/00

Quality Assessment Report:

GB/SIR/QAR07.0040/11



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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)

See annexe for more information

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.
2. 1080 WL/SL Series Assembly: Any electrical device fitted into the 1080 WL/SL Series Assembly shall have power dissipation ≤ 3.0 W, an outer diameter of ≤ 50.0 mm and a height of ≤ 30.0 mm. The electrical device shall be fitted by International Metal Engineering and supplied as a complete assembly.
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)
 $U_i = 30$ V; $I_i = 120$ mA; $P_i = 0.84$ W or $P_i = 0.75$ W; $C_i = 1$ nF; $L_i = 10$ μ H
Sensor Circuit (Terminals 3, 4, 5, and 6):
With the following maximum values (per circuit)
 $U_o = 9.6$ V; $I_o = 25$ mA; $P_o = 60$ mW; $C_o = 2.4$ μ F; $L_o = 33$ 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.
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:
 $U_i = 30$ V; $I_i = 120$ mA; $P_i = 0.84$ W or $P_i = 0.75$ W; $C_i = 1$ nF; $L_i = 0$ μ H
Sensor Circuit (Terminals 3, 4, 5, and 6):
With the following maximum values (per circuit):
 $U_o = 9.6$ V; $I_o = 28$ mA; $P_o = 67.2$ mW; $C_o = 3.5$ μ F; $L_o = 35$ 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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. The introduction of the 1080 Series Device Assembly, the details.

Issue 2 – this Issue introduced the following changes:

1. The 95 Series has been removed from the certificate.
2. The YTA 80 model has been removed from the 96 Series.
3. The missing model designation 1080 Device Series assembly was added to the product/equipment and has been updated from “1080 devices” to “1080 WL/SL series”; certificate and documentation have been updated accordingly.
4. The BSP conduit options have been removed from the product range for all models.
5. 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.
6. 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.
7. Administrative updates to 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.
8. 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.
9. 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.
10. Removal of YTA50 model for model series 96; product description, specific conditions, and documentation have been updated accordingly.
11. The applicable product standards have been updated to the following editions:
 1. IEC 60079-0:2017
 2. IEC 60079-1:2014
 3. IEC 60079-31:2022
12. Update of the 98 Series ambient temperature range to $-40\text{ °C} \leq T_{amb} \leq +60\text{ °C}$.
13. Update of the 96 Series temperature class to T4.

Annex:

[IECEx SIR 10.0132X Iss2 Annexe.pdf](#)

Annexe to: IECEx SIR 10.0132X Issue 2

Applicant: International Metal Engineering Pte Ltd

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



EQUIPMENT (continued)

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 RESISTANCE 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)	
	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	

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Applicant: International Metal Engineering Pte Ltd

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



PART NO	SENSOR DESCRIPTION		
	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
		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

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Part number	Sensor description
	05 1/2" NPT
	06 M20 x 1.5
	07 None

99 Series

PART NO	SENSOR DESCRIPTION		
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 RESISTANCE 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 / TEMPERATURE TRANSMITTER
		CODE	CHOICE OF ENCLOSURE
		A	ALUMINUM
		T	STAINLESS STEEL
		CODE	CONDUIT ENTRY
		01	3/4"NPT
		02	1/2"NPT
		08	M20 x 1.5P
		CODE	NIPPLE UNION

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PART NO	SENSOR DESCRIPTION	
	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

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