





**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 10ATEX1280X  
Issue 0

**13 DESCRIPTION OF EQUIPMENT**

95, 96, 98 and 99 series temperature probe assembly

The temperature probe assembly comprises a flameproof nipple union assembly fitted with a probe which houses the temperature sensor. This unit is fitted to an International Metal Engineering enclosure to complete the assembly. The probe is retained within the nipple by a spring. The nipple union, probe and spring are stainless steel grade 316. The probe end of the nipple union is threaded to accommodate an optional protection of the probe such as a thermowell.

The 1080 series may contain equipment limited to a maximum power dissipation of 3 W.

The union nipple assembly may be fitted to the following International Metal Engineering enclosures:

- 95 Series: Yokogawa YTA enclosures (Kema 07ATEX0130)
- 96 Series: 1080SM and 1080 WM enclosures (Sira 09ATEX1023U)
- 98 Series: 8080SM and 8080WM enclosures (Sira 08ATEX1227X)
- 99 Series: 1080SM and 1080 WM enclosures (Sira 09ATEX1023U)

The assemblies have the following part numbers:

**95 Series**

Part number	Sensor description	
95TJ	Type J thermocouple, class 1, DIN/IEC 584-2-1992	
95TK	Type K thermocouple, class 1, DIN/IEC 584-2-1992	
95TT	Type T thermocouple, class 1, DIN/IEC 584-2-1992	
95TE	Type E thermocouple, class 1, DIN/IEC 584-2-1992	
95TR	Type R thermocouple, class 1, DIN/IEC 584-2-1992	
95TS	Type S thermocouple, class 1, DIN/IEC 584-2-1992	
95PA	100 Ohm platinum resistance sensor, class A, DIN/IEC 751-1985	
95PB	100 Ohm platinum resistance sensor, class B, DIN/IEC 751-1985	
95PF	100 Ohm platinum resistance sensor, class A, DIN/IEC 751-1985, 4 wire	
95xx	Alternative temperature sensor	
	<b>Code</b>	<b>Number 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>Yokogawa enclosure</b>
	YTA110-00	Temperature transmitter with aluminium enclosure
	YTA110-E1	Temperature transmitter with stainless steel enclosure
	YTA310-00	Temperature transmitter with aluminium enclosure
	YTA310-E1	Temperature transmitter with stainless steel enclosure
	YTA320-00	Temperature transmitter with aluminium enclosure
	YTA320-E1	Temperature transmitter with stainless steel enclosure

This certificate and its schedules may only be reproduced in its entirety and without change.

**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
 Fax: +44 (0) 1244 681330  
 Email: [info@siracertification.com](mailto:info@siracertification.com)  
 Web: [www.siracertification.com](http://www.siracertification.com)



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1280X  
Issue 0

96 Series

Part number	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	Alternative temperature sensor	
	<b>Code</b>	<b>Number 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>Temperature Transmitter Enclosure</b>
	YTA 50	Temperature Transmitter
	YTA 70	Temperature Transmitter with Hart
	YTA 80	Temperature Transmitter With Fieldbus
	8070	Terminal block
	<b>Code</b>	<b>Enclosure material</b>
	A	Aluminium
	T	Stainless steel
	<b>Code</b>	<b>Conduit entry</b>
	01	¾" NPT
	02	½" NPT
	08	M20 x 1.5
	37	½" BSP
	38	¾" BSP

This certificate and its schedules may only be reproduced in its entirety and without change.

**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900

Fax: +44 (0) 1244 681330

Email: [info@siracertification.com](mailto:info@siracertification.com)

Web: [www.siracertification.com](http://www.siracertification.com)



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1280X  
Issue 0

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	
	<b>Code</b>	<b>Number 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>8080 Series indicator/ transmitter</b>
	xxxxxx	As per Sira 08ATEX1227X
	<b>Code</b>	<b>Enclosure material</b>
	A	Aluminium
	T	Stainless steel
	<b>Code</b>	<b>Conduit entry</b>
	04	3/4" NPT
	05	1/2" NPT
	06	M20 x 1.5
	07	None

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1280X  
Issue 0

99 Series

Part number	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	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	Temperature Transmitter Enclosure
	xxxxxx	Terminal block / Temperature Transmitter
	Code	Enclosure material
	A	Aluminium
	T	Stainless steel
	Code	Conduit entry
	01	3/4" NPT
	02	1/2" NPT
	08	M20 x 1.5
	37	1/2" BSP
	38	3/4" BSP

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	14 January 2011	R20362A/00	The release of prime certificate.

This certificate and its schedules may only be reproduced in its entirety and without change.



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

**Sira 10ATEX1280X  
Issue 0**

- 15 **SPECIAL CONDITIONS FOR SAFE 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.
- 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.

This certificate and its schedules may only be reproduced in its entirety and without change.

# Certificate Annexe



Certificate Number: Sira 10ATEX1280X  
 Equipment: 95,96,98 and 99 Series temperature probe assemblies  
 Applicant: International Metal Engineering Pte Ltd

## Issue 0

Drawing	Sheets	Rev	Date (Sira stamp)	Title
95xx-x-xx-xxxxxx-xx (See table 1.0)	1 of 1	0	03 Dec 10	95 series assembly
96xx-x-xx-xxxxxx-xx (See table 1.0)	1 of 1	0	03 Dec 10	96 series assembly
98xx-x-xx-xxxxxx-xx (See table 1.0)	1 of 1	0	03 Dec 10	98 series assembly
99xx-x-xx-xxxxxx-xx (See table 1.0)	1 of 1	0	03 Dec 10	98 series assembly
1080Sx-xx (See table 2.0)	1 of 1	3	03 Dec 10	1080Sx SS head assembly
1080Wx-xx (See table 2.0)	1 of 1	0	03 Dec 10	1080Wx Aluminium head assembly
5050-00x-xx-xx (See table 2.0)	1 of 1	0	03 Dec 10	Flameproof nipple for 92 series
54x5-00x (See table 2.0)	1 of 1	0	21 Jan 11	54x5 series assembly
5410-00x-xx (See table 2.0)	1 of 1	0	03 Dec 10	Bottom union
90x-xx-x-Lxxx (See table 1.0)	1 of 1	0	21 Jan 11	90 series plain capsule sensor
5300-001	1 of 1	0	03 Dec 10	Male union connector
1080-994	1 of 1	0	03 Dec 10	Instruction for temperature assembly
5400-00x-xx (See table 2.0)	1 of 1	0	03 Dec 10	Flame lock union
8080xx-xx (See table 3.0)	1 of 1	0	03 Dec 10	8080 enclosure assembly (for IME 98 series)
8030-A	1 of 1	1	03 Dec 10	Spring for union
5300-002	1 of 1	0	03 Dec 10	O-ring for union
8090-100	1 of 1	0	03 Dec 10	'Hockey puck' transmitter
807x-06	1 of 1	0	03 Dec 10	Terminal block
8080-007	1 of 1	1	03 Dec 10	Stainless steel rivets
1080-203	1 of 1	0	06 Dec 10	Rectangular label for 95 series
1080-202	1 of 1	0	03 Dec 10	Rectangular label for 96 series
1080-201	1 of 1	0	03 Dec 10	Rectangular label for 98 series
1080-200	1 of 1	0	03 Dec 10	Rectangular label for 99 series
1080-034	1 of 1	0	03 Dec 10	Lower half tag for 1080SM
1080-037	1 of 1	0	03 Dec 10	Lower half tag for 1080WM
8080-663	1 of 1	0	03 Dec 10	Lower half tag for 8080 assembly
8080-994	1 of 1	0	03 Dec 10	Instruction for temperature assembly
8080-012	1 of 1	1	03 Dec 10	Compound

This certificate and its schedules may only be reproduced in its entirety and without change.

## Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
 Fax: +44 (0) 1244 681330  
 Email: [info@siracertification.com](mailto:info@siracertification.com)  
 Web: [www.siracertification.com](http://www.siracertification.com)