



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 02ATEX1049** Issue: **2**

4 Equipment: **Heated Regulator Assembly XHR-300**

5 Applicant: **Pressure Tech Limited**

6 Address: Rossington Place
Graphite Way
Hadfield
Derbyshire SK13 1QG
UK

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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.

9 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 50014:1997 (inc amendments A1 and A2) EN 50018:2000 EN 13463-1:2001

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC 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.

12 The marking of the equipment shall include the following:



II 2 G
EEx d IIC T3 (Ta = -40°C to +50°C)

Project Number 51A19560
C. Index 06

C Ellaby
Certification Officer

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Heated Regulator Assembly XHR-300 comprises of three main parts: a flameproof, cast aluminium enclosure manufactured by Cor.Tem and certified II, 2, G, EEx d IIC, certificate number CESI 01ATEX 034U, heater probes and a diaphragm sensed pressure regulator, manufactured in stainless steel. The flameproof enclosure is employed to house the control equipment for the heater probes. The heater probes protrude from the flameproof enclosure via two 3/8" BSP threaded flamepaths, access to the heaters within is provided by a cylindrical flamepath secured by a hexagonal threaded locking nut. The heater probes are installed into the body of the pressure regulator. The flameproof enclosure/probe combination contains all of the electrical equipment. The pressure regulator contains no electrical equipment. The flameproof enclosure provides upto three, M20 x 1.5, threaded entry points for the installation of suitably certified cable entry devices.

The regulator can be used to regulate any gas or liquid that is compatible with the materials of construction.

Model ref.	Electrical ratings	Regulator Pressure	
		Maximum Inlet Pressure	Maximum Outlet Pressure
XHR-300	115 Vac 3 A, 230 Vac 3A	300 bar	35 bar
XHR-301	115 Vac 3 A, 230 Vac 3A	300 bar	150 bar

Variation 1 - This variation introduced the following change:

- i. The introduction of the Heated Regulator Assembly XHR-301, its ratings have been added to the table in the description above..

Variation 2 - This variation introduced the following changes:

- i. The applicant's name and address was changed in from Pressure Tech 2000 Ltd, Unit 2, Blue Chip Business Park, Atlantic Street, Altrincham, Cheshire, WA14 5DD to Pressure Tech Limited, Rossington Place, Graphite Way, Hadfield, Derbyshire SK13 1QG, UK.
- ii. The maximum outlet pressure of the Type XHR-300 was increased from 20 bar to 35 bar, the description being amended accordingly.
- iii. The introduction of minor drawing amendments that clarify the existing data and change components at are not critical to explosion safety.



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	12 April 2002	R51A7658A	The release of the prime certificate.
1	8 February 2005	R51V12811A	The introduction of Variation 1.
2	30 January 2009	R51A19560A	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 to 1 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.The introduction of Variation 2.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

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.

17.3 This certificate relies on the following previously certified product. When it is used as part of the Heated Regulator Assembly type XHR-300, the key attributes listed in the table below shall still be maintained by their original certificate.

Item	Certificate Number	Key attributes
Cor.Tem Enclosure Type CCA ESECUZ	CESI 01 ATEX 034U	EEx d IIC, group II Cat 2 G

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Certificate Annexe

Certificate Number: Sira 02ATEX1049
Equipment: Heated Regulator Assembly XHR-300
Applicant: Pressure Tech Limited



Issue 0

Drawing No.	Sheet	Rev.	Date	Title
A2-PT-XHR-300	1 of 1	C	19 Mar 02	Electrical Heated Regulator XHR300
REGULATOR XHR 300	1 of 1	-	27 Mar 02	Regulator XHR 300Parts List
A3-EHR-300-006	1 of 1	C	19 Mar 02	Enclosure Tappings
A4-PT-EHR-300-007	1 of 1	C	19 Mar 02	Connection Fitting
A4-PT-EHR-300-008	1 of 1	B	19 Mar 02	Heated Regulator Label
A2-PT-XHR-300-100	1 of 1	B	01 Mar 02	Electrical Heated Regulator XHR300 Electrical Portion

Issue 1

Drawing No.	Sheet	Rev	Date	Description
A2-PT-EHR-301-HP	1 of 1	A	25 Nov 04	Electrical Heated Regulator EHR301
Form OS-005-A	6	-	27 Jan 05*	XHR-301 Bill of Materials
A4-PT-EHR-301-008	1 of 1	A	28 Jan 05	Heated Regulator Label

* This is the date that the drawing was stamped by Sira.

Issue 2

Drawing No.	Sheets	Rev.	Date	Title
REGULATOR XHR 300	1 of 1	-	03 Jan 07	XHR 300 Parts List
REGULATOR XHR 301	1 of 1	-	07 Dec 06	XHR 301 Parts List
A4-PT-EHR-300-008	1 of 1	E	16 Dec 08	XHR 300 Heated Regulator Label
A4-PT-EHR-301-008	1 of 1	C	05 Jul 06	XHR 301 Heated Regulator Label

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