

1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 03ATEX2007X

4 Equipment: Type 422 I/P Converter

5 Applicant: IMI Watson Smith Limited

6 Address: Cross Chancellor Street
Leeds LS6 2RT
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 confidential report number R52A9872A.

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 plus amendments A1 and A2
EN 50020:2002
EN 50284:1999

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:

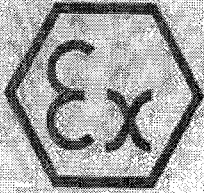


II 1G
EEx Ia IIC T4 (T_a = -40°C to +80°C)

Project Number 52A9872
Date 2 August 2003
C. Index 12

M. D. Shearman
Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 03A-TEX2007X

13 DESCRIPTION OF EQUIPMENT

The Type 422 I/P Converter is designed to convert a 4-20 mA input to a pressure output. The converter comprises the following main sub-assemblies housed in a zinc alloy enclosure with a nylon cover:

- rfi filter PCB
- Input PCB
- main PCB
- two valves

External connections are by means of an integral terminal block, a plug and socket or a flying lead. The Type 422 has the following safety description:

- U_i = 28 V
- I_i = 110 mA
- P_i = 0.8 W
- C_i = 5 nF
- L_i = 0.24 mH

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev	Date	Title
	92-133	1 to 2	C	23 May 03	General assembly & marking
	92-153	1 of 1	C	23 May 03	Reedex
	03-039	1 of 1	A	30 May 03	Parts list
	03-040	1 to 3	A	30 May 03	Schematic
	03-041	1 to 2	A	30 May 03	Artwork - main PCB
	03-042	1 of 1	A	30 May 03	Artwork - input PCB
	03-043	1 of 1	A	29 May 03	Artwork - rfi filter board

14.2 Report No. R52A9872A.

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

15.1 Under certain extreme circumstances, the non-metallic cover may generate an ignition-capable level of electrostatic charge. Therefore, when it is used for applications that specifically require group II, category 1 equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

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 Report No. R52A9872A.

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.

Date 2 August 2003

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Sira Certification Service

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