



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 08ATEX1027X** Issue: **2**

4 Equipment: **Parking Housing**

5 Applicant: **Rotork Controls Limited**

6 Address: **Brassmill Lane
Bath
England
BA1 3JQ**

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 60079-0:2006 EN 60079-1:2007 EN 61241-1:2004
IEC 60079-0:2007 was used as guidance in respect of marking

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 GD
Ex d IIB T4 Gb
Ex t IIIC T120°C Db IP68 (2)
Ta = - (1) °C to +70°C
(1) -20°C or -50°C as appropriate
(2) Only IP6X is endorsed by Sira under this report

Project Number 15000-044
C. Index 22

C Ellaby
Deputy Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 08ATEX1027X
Issue 2

13 DESCRIPTION OF EQUIPMENT

The Parking Housing comprises of two main parts, the enclosure base and the housing/terminal cover (lid). The base is manufactured in cast aluminium alloy LM25. It comprises a circular housing with a flanged base. The flanged base is for mounting purposes. The enclosure base is provided with four (optional) threaded cable entry points. These are provided with a M25 x 1.5 thread. The base is designed to accommodate either a deep housing or a standard Rotork terminal cover.

There are two cover options that can be specified; either a deep housing or standard terminal cover. The deep housing covers are manufactured in cast aluminium alloy LM25TF, the standard terminal covers are manufactured in either cast aluminium alloy LM20 or LM25. In all cases the joint between the enclosure lid and base is a tapered spigoted, cylindrical flamepath. In all cases the lid is secured to the base with four captive M8 x 38 hexagonal socket cap-head screws. The deep housing cover is provided with up to five optional threaded cable entry points. These are provided with a M25 x 1.5 thread.

Design Options

The Parking Housing can be supplied as the 'P3W Coordinator' or the 'P3W Repeater' these are fitted with internal equipment as described below.

Parking Housing as complete units

Designation	Cover Option	Internal Equipment
P3W Coordinator	Deep Housing	Wireless network, associated external aerial
P3W Repeater	Deep Housing	Wireless network, associated external aerial and power supply

Parking Housing with user equipment

Cover Option	Internal Equipment
Deep Housing	Profibus® Disconnect PCB
Standard terminal cover	Profibus® Disconnect PCB
Deep Housing	Wireless network, associated external aerial

The user equipment comprising the terminal enclosure lid and the associated contents removed from:

IQ Electric Valve Actuators	IIB	SIRA 01ATEX1221X
IQT Electric Valve Actuators	IIB	SIRA 03ATEX1254X

Variation 1 - This variation introduced the following changes:

- i. The recognition of the following alternative housing bases:
 - One cable entry - part N° 50826
 - Two cable entry - part N° 50871



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 08ATEX1027X
Issue 2

Variation 2 - This variation introduced the following changes:

- i. The product description was amended to recognise the following modifications.
 - The existing Parking Housing supplied complete with a wireless network PCB and associated aerial was designated the 'P3W Coordinator'.
 - The introduction of the 'P3W Repeater', this is a version of the Parking Housing that incorporates a wireless network, associated external aerial and a power supply fitted within a deep cover.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	24 February 2009	R51A15000-007A	The release of the prime certificate.
1	19 November 2010	R15000-046A-00	The introduction of Variation 1.
2	04 April 2011	R15000-044A-00	The introduction of Variation 2.

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

15.1 In accordance with clause 5.1 of EN 60079-1, the critical dimensions of the flamepaths are:

Flamepath	Maximum Gap (mm)	Minimum L (mm)
Housing & Terminal Cover/Enclosure Base	0.15	27.30

15.2 When supplied with an individual Parking Housing enclosure base the user is only permitted to install the following equipment taken from the Rotork Actuators as listed:

Cover Option	Internal Equipment
Deep Housing	Profibus® Disconnect PCB
Standard terminal cover	Profibus® Disconnect PCB
Deep Housing	Wireless network, associated external aerial

The user equipment comprising the terminal enclosure lid and the associated contents removed from:

IQ Electric Valve Actuators IIB SIRA 01ATEX1221X
IQT Electric Valve Actuators IIB SIRA 03ATEX1254X

The associated ambient temperature must be verified as compatible.

15.3 The flamepath must be protected by the protective device supplied with the equipment when an enclosure cover is not installed.

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.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 08ATEX1027X
Issue 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 **Gas Group IIB (below-20°C to -50°C)** Each device shall be subjected to a routine overpressure test in accordance with the table below. In all cases the pressure shall be maintained for at least 10 s as required by clause 16 of EN 60079-1:2007. There shall be no permanent deformation or damage to the enclosure.

Equipment	Hydrostatic Overpressure Test Pressure	
	Bar	Lbf/in ²
Enclosure housing base	16.53	239.68

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Certificate Annexe

Certificate Number: Sira 08ATEX1027X
Equipment: Parking Housing
Applicant: Rotork Controls Limited



Issue 0

Drawing No	Sheet	Rev	Date	Description
AD1298	1 of 3	1	09 Dec 08	Parking housing assemblies, ATEX & IECEx Groups IIB and IIC
AD1298	2 of 3	1	09 Dec 08	Parking housing assemblies, ATEX & IECEx Groups IIB and IIC
AD1298	3 of 3	1	09 Dec 08	Parking housing assemblies, ATEX & IECEx Groups IIB and IIC
45434	1 of 1	1	26 Oct 01	Label terminal cover ATEX English
49288	1 of 1	1	02 Apr 08	Nameplate, parking housing, ATEX IIB, -20°C + 70°C
49289	1 of 1	1	02 Apr 08	Nameplate, parking housing, ATEX IIB, -50°C + 70°C

Issue 1

Drawing No	Sheets	Rev.	Date (Sira stamp)	Title
AD 1298	1 to 3	2	26 Oct 10	Parking housing assemblies, ATEX & IECEx, Groups IIB and IIC

Issue 2

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
AD 1298	1 to 4	3	11 Mar 2011	Parking Housing Assemblies, ATEX & IECEx, Groups IIB and IIC

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