



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 14ATEX1185X** Issue: **1**

4 Equipment: **Remote Hand Station**

5 Applicant: **Rotork Controls Ltd** **Rotork Controls Inc** **Rotork UK Limited**

6 Address: Brassmill Lane
Bath, BA1 3JQ
United Kingdom
675 Mile Crossing Blvd
Rochester
New York 14624
USA
9 Brown Lane West
Leeds
LS12 6BH
United Kingdom

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 Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 60079-0:2012+A11 EN 60079-1:2014 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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 2GD
Ex db IIB T4 Gb
Ex tb IIIC T120°C Db IP68/IP66[ⓐ]
Ta = (-^①°C to +^②°C)
^① down to -50°C, ^② up to 70°C
[ⓐ] Only IP6X is endorsed by Sira on this certificate

Project Number 70104490


N Jones
Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Remote Hand Station (RHS) is the electrical enclosure and associated display and control circuitry from a Rotork Actuator incorporated with an appropriate back housing that includes field wiring facilities so that it can be mounted remotely from an actuator. This allows an operator to monitor and control a Rotork Actuator which is mounted in an inaccessible location.

The Remote Hand Station comprises an electrical control and terminal enclosures attached via a common back housing casting. The back housing casting is manufactured in aluminium alloy and provides the back housing for two electrical enclosures, all of which are designed to satisfy the requirements for flameproof equipment.

The electrical enclosure is formed by a cover which connects to the back housing casting by means of a spigoted flamepath joint and is secured by four M8 capscrews. The electrical enclosure can be provided in two lengths, short and extra-short and contains monitoring and control circuitry. At one end of the electrical enclosure a window is provided to allow the observation of an internal LCD device. The window is manufactured from toughened glass and potted into the electrical cover. The electrical enclosure has external, not penetrative local controls.

The terminal enclosure is formed by a cover which connects to the back housing casting by means of a spigoted flamepath joint and is secured by three M5 capscrews. The terminal enclosure provides all electrical field wiring terminals. A single threaded entry point is provided for the installation of a suitable cable entry facility. The volumes of the terminal enclosure and the electrical enclosure are separated by a potted, cable feed-through bushing.

Variation 1 - This variation introduced the following changes:

- i. Introduction of an alternative RHS back housing casting, part number 15290, manufactured in aluminium alloy to BS1490, grade LM25.
- ii. Addition of Rotork UK Limited, 9 Brown Lane West, Leeds, West Yorkshire, LS12 6BH as an alternative applicant/manufacturing site.
- iii. Change the product name from 'IQ3 Remote Hand Station' to 'Remote Hand Station', and amend the product description as necessary.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	27 January 2015	R70005425A	The release of the prime certificate.



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Issue	Date	Report number	Comment
1	19 January 2017	R70104490A	This Issue covers the following changes: <ul style="list-style-type: none">• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>• The introduction of Variation 1.

15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

- 15.1 This equipment shall be positioned such that risk of impact to the window is low.
- 15.2 This equipment includes external, non-metallic parts, including the outer protective coating; therefore, cleaning must only be carried out with a damp cloth.
- 15.3 The fastener grades securing the cover are indicated in the table below, if these fasteners are replaced in service the correct fastener grade must be used.

Location	Fastener grade
Electrical cover/ back housing	A4-80
Terminal cover/ back housing	12.9

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

Flamepath	Flamepath Dimension (mm)	
	Gap	Length
Electrical cover/ back housing	0.15	26.0
Terminal cover/ back housing	0.15	12.5
Cable feed through bush/back housing	0.15	25.0

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 MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 Each enclosure shall be subjected to a routine overpressure test in accordance with the tables below for the design option and ambient temperature range stated. In all cases the pressure shall be maintained

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Sira Certification Service

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for at least 10 s as required by clause 16 of EN 60079-1. There shall be no permanent deformation or damage to the enclosure.

Routine overpressure tests IQ (below -20°C to -50°C) to +70°C

Equipment	Test Pressure	
	bar	lbf/in ²
With short electrical cover		
Back housing, electrical enclosure Aluminium Alloy to BS1490. Grade: LM25TF, heat treated(or equivalent)	14.91	216.25
With extra short electrical cover		
Back housing, electrical enclosure Aluminium Alloy to BS1490. Grade: LM25TF, heat treated(or equivalent)	14.96	216.98

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Certificate Annexe



Certificate Number: Sira 14ATEX1185X
Equipment: IQ3 Remote Hand Station
Applicant: Rotork Controls Ltd

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
PLAD 1429	1 to 3	01	21 Jan 15	Parts list for Remote Hand station ATEX & IECEX Groups IIB & IIC
AD1429	1 to 6	1	21 Jan 15	Remote Hand Station, ATEX & IECEX Groups IIB & IIC
RS308	1 to 2	6	21 Jan 15	Potting Procedure For CENELEC and ATEX Term, Blocks & MTR, Looms
RS448	1 to 2	1	21 Jan 15	Window Bonding Procedure

Issue 1

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
PLAD 1429	1 to 4	02	15 Dec 16	Parts list for Remote Hand station ATEX & IECEX Groups IIB & IIC
AD1429	1 to 6	2	15 Dec 16	Remote Hand Station, ATEX & IECEX Groups IIB & IIC

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