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Epsilon

1 **EC - Type Examination Certificate**

2 Equipment intended for use in potentially explosive atmospheres

3 Certificate Number: EPSILON 08 ATEX 2370X

4 Equipment: 2200 Series Valve Position Monitor

5 Manufacturer: Westlock Controls Ltd. Westlock Controls Corp.

6 Address: 22 Chapman Way 280 Midland Avenue
Tunbridge Wells, Kent Saddle Brook, New Jersey
TN2 3EF, UK 07662, USA

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

8 Epsilon, Notified Body number 1712 in accordance with Article 9 of the Council directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive

The examination and test results are recorded in confidential reports RETS(A)2515/A/1, /A/2, /A/3 & /A/4

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0:2006 EN60079-1:2007 EN61241-0:2006 EN61241-1:2004

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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

12 The marking of the equipment shall include the following:

 II 2 G Ex d IIB + H₂ T* Tamb -*°C to *°C (See schedule)

Ex tD A21 IP6X T*°C



On behalf of Epsilon


S D'Henin
Certification Manager

Date: 25 July 2008

Certificate 08 ATEX 2370X

This certificate may only be reproduced in its entirety and without any change, schedule included.
The certificate is only valid when it carries an original signature and holographic security label.
For help or assistance relating to this certificate, contact cs@epsilonex.com.



13 **Schedule**

14 Certificate Number: EPSILON 08 ATEX 2370X

15 Description of Equipment or protective system

The 2200 series enclosure comprises of two parts, a cover and housing. The cover has three variations, flat cover, standard beacon cover or a high cover to suit different applications. The housing can offer up to four of the following conduit or cable entries; M20 x 1.5p, M25 x 1.5p, 1/2"-14NPT or 3/4"-14 NPT for connection to an external power source via appropriate ATEX certified cable glands or conduit seals. When using conduit the enclosure must be sealed at the enclosure wall using a suitably certified conduit seal.

The 2200 series valve position monitor provides two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors or proximity switches and an external visual indicator. For applications that require position feed back, ancillary components such as a 4-20mA current signal transmitter or a resistive signal feed back can be installed. The 2200 product can be used with different network communication bus protocols, the 2200 series enclosure can house various network modules.

The first two digits of the Westlock nomenclature signify the series with the third digit defining whether the product has a visual beacon or not. The table below details the applicable ambient ranges;

Series Code	Cover Type	T Class	Ambient Range
224*	Beacon	T6 (80°C)	-30°C to +60°C
224*	Beacon	T5 (95°C)	-30°C to +75°C
224*	Beacon	T4 (130°C)	-30°C to +85°C
226*	Flat	T6 (80°C)	-20°C to +60°C
226*	Flat	T5 (95°C)	-20°C to +75°C
226*	Flat	T4 (130°C)	-20°C to +85°C

The fourth digit designates the switch / sensor type. The following table details the most common switch / sensor types together with their electrical ratings.

Series Code / Switch Designation	Electrical Rating
22*5	MECHANICAL (SPDT): 15A - 125 OR 250 VAC; 0.5A 125VDC; 0.25A 250VDC
22*6	MECHANICAL (DPDT): 10A - 125 OR 250 VAC, 10A - 28 VDC, 0.2A - 125 VDC
22*7	INDUCTIVE PROXIMITY SENSORS
22*9	MAGNUM RATINGS: 3A/120 VAC, 1.5A/240 VAC OR 2A/24 VDC

The 2200 series valve position monitor has the option for position feedback by the means of a resistive signal (RS) or current signal (CS).

The RS Transmitter electrical ratings are – 1K Ohms (standard) or 5K Ohms (optional).

The CS Transmitter electrical ratings are – current loop 4-20 mA @ 18 to 24 VDC.

The 2200 series valve position monitor has the ability to connect to bus networks via Netpak modules. With the Netpak options it may be possible to assemble other switches within the enclosure (depending on enclosure cover variation).

Netpak Option	Electrical Parameters
AS-I Actuator Sensor Interface	24 VDC, 140 mA MAX
Device Net	24 VDC, 105 mA MAX
Modbus	24 VDC, 85 mA MAX
Profibus	24 VDC, 120 mA MAX
Foundation Fieldbus	9-32 VDC, 34 mA MAX

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16 Descriptive Documents

16.1 Reports: RETS(A)2541/A/1, /A/2, /A/3 & /A/4

16.2 Drawings:

Number	Date	Issue	Description
LB-040802UK	15/05/08	A	2200 SERIES ATEX MASTER
MS-10766	5/6/08	-	CERTIFICATION DRAWING 2200 (ATEX & IEC Ex) SHEET 1 OF 2
MS-10766	5/6/08	-	CERTIFICATION DRAWING 2200 (ATEX & IEC Ex) SHEET 2 OF 2

17 Conditions of Certification

17.1 Special Conditions for Safe Use

- Temperatures at the cable entry point can exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- The certification applies to the enclosure without cable glands, only suitably approved flameproof cable glands may be used with an ingress protection rating of IP6X.
- When conduit is utilised the conduit must be sealed in accordance with clause 13.2.2 of EN60079-1:2007 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanks with an ingress protection rating of IP6X.
- All fasteners used must be supplied by Westlock Controls Ltd.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings listed in 16.2.

17.2 Conditions for Use

None

18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by section 9:
Covered by manufacturer's instructions.

The manufacturer shall inform the notified body of any modifications to the design of the product described by this schedule

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1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **EPSILON08ATEX2370X**
4. Equipment or Protective System: **2200 Series Valve Position Monitor**
5. Manufacturer: **Westlock Controls Ltd**
6. Address: **22 Chapman Way, Tunbridge Wells, Kent, TN2 3EF, UK**
7. This supplementary certificate extends EC-Type Examination Certificate Number to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Report 09040039A1 Dated July 2010

This Supplementary Certificate shall be held with the original Certificate



P Moss
Certification Officer
9th July 2010

Intertek Testing & Certification Limited
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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER : EPSILON08ATEX2370X

VARIATION ONE

Description of the Variation to the Equipment or Protective System.

To permit the following change:

Addition of switch option for up to 4 GO Switches fitted internally designated with Series code 22x3 with the ratings
GO SWITCH (SPDT): 4A - 120VAC, 3A - 24VDC, 0.5A -125VD

Addition of an optional 10K ohm RS Transmitter.

Addition of up to two M32 x 1.5p conduit entries at either conduit entry position A or B for the installation of an Ex d coil option with the following electrical ratings

COIL VOLTAGE ELECTRICAL RATINGS

12 VDC	12 VDC (0.7W)
24 VDC	24 VDC (0.7W)
125 VDC	125 VDC (1W)
90-120 VAC	90-120 VAC (4VA)
220-240 VAC	90-120 VAC (4VA)
OTHERS	LIMITED TO 1W OR 4VA

Addition of Stainless steel as an optional enclosure material.

Continuation of the inclusion of the alternative manufacturing location:

Westlock Controls Corporation
280 Midland Avenue
Saddle Brook
New Jersey
07662, USA

Report No.

Intertek Report 09040039A1 Dated July 2010

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CONDITIONS OF CERTIFICATION

(a) Special Conditions for Safe Use:

There are no additional special conditions for safe use (see original certificate).

(b) Conditions for Use (Routine Tests):

There are no additional routine tests (see original certificate).

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
LB-040802UK	B	23-02-10	2200 Series ATEX Label Master
MS-10766	B	23-02-10	Certification Drawing 2200 (ATEX and IEC Ex) Sheets 1 to 3

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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