1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number: **ITS12ATEX17472X**

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, United Kingdom

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

8. Intertek Testing and Certification Limited, notified body number 0359 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 the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

   The examination and test results are recorded in confidential Intertek Report 11054385A1 dated February 2012.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2009, EN 60079-1:2007 & EN 60079-31:2009 except in respect of those requirements referred to at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 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 this certificate.

12. The marking of the equipment or protective system shall include the following:-

II 2 G Ex d IIB+H2 T* Gb Tamb -*°C to +*°C

II 2 D Ex tb IIIC T* Db IP6X Tamb -*°C to +*°C

* Dependant on model, see schedule for details

P Moss
Certification Officer
14 May 2012

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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17472X

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"-14NPT to allow connection facilities via appropriate 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.

SERIES CODE / SWITCH DESIGNATION	ELECTRICAL RATING
22x3	GO SWITCH (SPDT): 4A - 120VAC; 3A - 24VDC, 0.5A - 125VDC
22x5	MECHANICAL (SPDT): 15A - 125 OR 250 VAC; 0.5A 125VDC; 0.25A 250VDC
22x6	MECHANICAL (DPDT): 10A - 125 OR 250 VAC, 10A - 28 VDC, 0.2A - 125 VDC
22x7	INDUCTIVE PROXIMITY SENSORS
22x9	MAGNUM RATINGS: 3A/120 VAC, 1.5A/240 VAC OR 2A/24 VDC

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 Series can be used with different network communication bus protocols. The 2200 Series enclosure can house various network modules

NETPAK OPTION	ELECTRICAL PARAMETERS
ASI - 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

TRANSMITTER CODE	ELECTRICAL RATING
CS TRANSMITTER	CURRENT LOOP 4-20 mA @ 18 to 24 VDL
RS TRANSMITTER	1K OHMS (STANDARD) OR 5K OR 10K OHMS (OPTIONAL)

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13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17472X

15. Description of Equipment or Protective System cont.

The 2200 series can also be supplied with two M32 x 1.5p conduit entries at either conduit entry position A or B (See drawing MS-10766 sheet 1 of 3) 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	220 - 240 VAC (4VA)
OTHERS	LIMITED TO 1W OR 4VA

NOTE : QUANTUM CERTIFIED AMBIENT FOR T4 (T130°C) IS 85°C

Ambient ranges vary dependent upon cover configuration see below;

ENCLOSURE MATERIAL	COVER TYPE	CERTIFIED AMBIENT DETAILS
ALUMINIUM	FLAT COVER	-20°C to +110°C (T4/T130°C); -20°C to +75°C (T5/T95°C); -20°C to +60°C (T6/T80°C)
	BEACON COVER	-30°C to +110°C (T4/T130°C); -30°C to +75°C (T5/T95°C); -30°C to +60°C (T6/T80°C)
STAINLESS STEEL	FLAT COVER	-60°C to +110°C (T4/T130°C); -60°C to +75°C (T5/T95°C); -60°C to +60°C (T6/T80°C)
	BEACON COVER	

NOTE: When fitted with the Ex d coils the T4 upper ambient is reduced to +85°C.

Alternative manufacturing location:

WESTLOCK Controls Corporation
280 Midland Avenue
Saddle Brook,
NJ 07663
USA

16. Report Number:

Intertek Report 11054385A1 dated March 2012.

13. SCHEDULE

14 EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17472X
17. CONDITIONS OF CERTIFICATION:

(a). 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 utilized the conduit must be sealed in accordance with clause 13.2.2 of IEC 60079-1:2007 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanking elements with an ingress protection rating of IP6X.
- The equipment is provided with a serial number label internally, if required by the end user Westlock Controls will supply an external serial number label.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings.
- Only suitably certified thread adapters can be utilized.

(b). Conditions For Use (Routine Tests)

No routine tests required.

18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 11054385B1 dated March 2012.

19. Drawings and Documents

Number	Title	Issue	Date
LB-040802UK	2200 SERIES ATEX LABEL MASTER	C	08/12/11
MS-10766	CERTIFICATION DRAWING 2200 (ATEX & IEC Ex)	C	16/03/2012

NOTE: REISSUED DUE TO AMMENDMENT TO DRAWINGS AND DOCUMENTS

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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: **ITS12ATEX17472X/1**

4. Equipment or Protective System: **2200, 2007 or 9479 Series Valve Position Monitor**

5. Manufacturer: **Westlock Controls Ltd**

6. Address: 22 Chapman Way, Tunbridge, Kent, TN2 3EF, United Kingdom

7. This supplementary certificate extends EC-Type Examination Certificate Number **ITS12ATEX17472X** 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 101009325MAN–001B, May 2013.

   This Supplementary Certificate shall be held with the original Certificate

   ITS12ATEX17472X, Dated 14th May 2012.

K R Spence
Certification Officer
21st May 2013

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Schedule

SUPPLEMENTARY EC TYPE EXAMINATION CERTIFICATE NUMBER: **ITS12ATEX17472X/1**

VARIATION ONE

Description of the Variation to the Equipment or Protective System

To permit the following change:

- Type identification to include equivalent series codes 2200 equated to 2007 or 9479.

The original product description has therefore been amended as follows:-

The 2200, 2007 or 9479 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"-14NPT to allow connection facilities via appropriate 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, 2007 or 9479 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.

SERIES CODE / SWITCH DESIGNATION	ELECTRICAL RATING
22x3 / 2007XXXXXXM03XX	GO SWITCH (SPDT): 4A - 120VAC; 3A - 24VDC, 0.5A - 125VDC
22x5 / 2007XXXXXXM02XX	MECHANICAL (SPDT): 15A - 125 OR 250 VAC; 0.5A 125VDC; 0.25A 250VDC
22x6 / 2007XXXXXXM04XX	MECHANICAL (DPDT): 10A - 125 OR 250 VAC, 10A - 28 VDC, 0.2A - 125 VDC
22x7 / 2007XXXXXXM0XXX	INDUCTIVE PROXIMITY SENSORS
22x9 / 9479XXXXXXM06 OR M12XX	MAGNUM RATINGS: 3A/120 VAC, 1.5A/240 VAC OR 2A/24 VDC

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, 2007 or 9479 Series can be used with different network communication bus protocols. The 2200, 2007 or 9479 Series enclosure can house various network modules.

NETPAK OPTION	ELECTRICAL PARAMETERS
ASI - 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

Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: **ITS12ATEX17472X/1**

TRANSMITTER CODE	ELECTRICAL RATING
CS TRANSMITTER	CURRENT LOOP 4–20 mA @ 18 to 24 VDC
RS TRANSMITTER	1K OHMS (STANDARD) OR 5K OR 10K OHMS (OPTIONAL)

The 2200, 2007 or 9479 series can also be supplied with two M32 x 1.5p conduit entries at either conduit entry position A or B (See drawing LB-040802UK sheet 1 of 2) 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	220 – 240 VAC (4VA)
OTHERS	LIMITED TO 1W OR 4VA

NOTE : QUANTUM CERTIFIED AMBIENT FOR T4 (T130°C) IS 85°C

Ambient range vary dependent upon cover configuration see original certificate.

Alternative label option to allow for additional information, as detailed on drawing LB-040802UK page 2.

Report No.

Intertek Report Ref: 101009325MAN–001B

CONDITIONS OF CERTIFICATION

See original certificate

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
LB-040802UK (pages 1 to 2)	E	26-03-2013	2200 SERIES ATEX I ARFI MASTER

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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. **EC-Type Examination Certificate Number:** ITS12ATEX17472X/02

4. **Equipment or Protective System:** 2200, 2007 or 9479 Series Valve Position Monitor

5. **Manufacturer:** Westlock Controls Ltd

6. **Address:** 22 Chapman Way, Tunbridge, Kent, TN2 3EF, United Kingdom.

7. This supplementary certificate extends EC-Type Examination Certificate Number ITS12ATEX17472X 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 Ref, dated. 101597370MAN-01 May 2014

   This Supplementary Certificate shall be held with the original Certificate(s).

   ITS12ATEX17472X, Dated 14th May 2012.
   ITS12ATEX17472X/01, Dated 21st May 2013.

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A Dickinson
Certification Officer
12th May 2014

SCHEDULE

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17472X/02

VARIATION TWO

Description of the Variation to the Equipment or Protective System.

To permit the following change(s): -

- Change of standard from EN 60079-0: 2009 to EN 60079-0: 2012

Report No.:

Intertek Report Ref.:101597370MAN-01, Dated: May 2014

The changes have not amended the Equipment or Protective System marking/description -

II 2 G Ex d IIB+H2 T* Gb Tamb -*°C to +*°C

II 2 D Ex tb IIIC T* Db IP6X Tamb -*°C to +*°C

Ambient ranges vary dependent upon cover configuration see below;

ENCLOSURE MATERIAL	COVER TYPE	CERTIFIED AMBIENT DETAILS
ALUMINIUM	FLAT COVER	-20°C to 110°C (T4/T130°C), -20°C to +75°C (T5/T95°C), -20°C to +60°C (T6/T80°C)
	BEACON COVER	-30°C to 110°C (T4/T130°C), -30°C to +75°C (T5/T95°C), -30°C to +60°C (T6/T80°C)
STAINLESS STEEL	FLAT COVER	-60°C to 110°C (T4/T130°C), -60°C to +75°C (T5/T95°C), -60°C to +60°C (T6/T80°C)
	BEACON COVER	

NOTE: When fitted with the Ex d coils the T4 upper ambient is reduced to +85°C.

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SCHEDULE

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17472X/02

Conditions of Certification:

(a). Special Conditions for safe use

- There are no additional conditions, see previous certificates.

(b). Conditions of Manufacture

- There are no additional conditions, see previous certificates.

Essential Health and Safety Requirements (EHSR's)

See original certificate, the listed change to the Equipment or Protective System has not altered compliance.

Drawings and Documents

- Drawings remain at current revision level.

Number	Title	Issue	Date
LB-040802UK	2200 SERIES ATEX LABEL MASTER (pages 1 to 2)	E	26-03-2013
MS-10766	CERTIFICATION DRAWING D460/D470 (ATEX & IEC Ex)	C	16/03/2012

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