1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX2147X** Issue: **11**

4 Equipment: **D230, D240, D250 Rotary Valve Position Control Transmitter Hart Enabled. D241, D251 Rotary Valve Position Transmitters Hart Enabled 3300 (5004/5044) Series and 8300 (XXXX) Series Position Monitors 3600 (711/722/7304/7344) Series and 8600 (811/822/7345) Series Control Monitors**

5 Applicant: **Westlock Controls Corp**

6 Address: 280 N. Midland Avenue
Saddle Brook
New Jersey 07663
USA.

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

8 CSA Group Netherlands B.V., notified body number 2813 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 IEC 60079-0:2018 EN 60079-11:2012 IEC 60079-31, Ed 3.0 2022-01

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 *GD
Ex ia II* T* G*
Ex tb IIIC T_5 135°C Db IP6X
Tamb: -*°C to +*°C
* This information can change dependent on the construction, refer to the description

Signed: Michelle Halliwell

Title: Director of Operations

PRODUCTS
RvA C 652

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13 **DESCRIPTION OF EQUIPMENT**

The 3300 (5004/5044), 3600 (711/722/7304/7344), 8300 (XXXX) and 8600 (811/822/7345) Series Valve Monitors are constructed from a 2-part aluminium, stainless steel or Grilamid TR 90 UV materials depending on the option/part number type selected. The enclosure contains a number of different types of proximity switches/sensors, simple mechanical type switches, solenoid valves or optional DS Transmitter depending on the build/model option selected. A terminal strip(s) is internally mounted to facilitate the electrical wiring between the internal electrical parts and the external cables. External electrical connections are made to the screw type terminals with access for the cables being provided by a number of cable glands arranged on the bottom part of the enclosure. In addition to the foregoing, internal, electrical parts, the 3600 and 8600 Series are fitted with a number of external, pneumatic parts operated by the internal solenoids/valves.

Some versions have a single metallic shaft that emerges from the top and the bottom faces of the enclosure, a polycarbonate or Grilamid beacon may optionally be fitted to this shaft that on top of the enclosure. This visual indicator provides symbols or words that indicate the 'open' or 'closed' position or direction of flow; the state of the valve is further visibly enhanced by the use of different background colours for the words or symbols.

Models D230, D240, D250, D241, D251 Series Transmitters: Are constructed from two part aluminum, stainless steel or Grilamid TR 90 UV materials depending on the option/part number type selected. A number of different types of proximity switches/sensors, simple mechanical type switches and solenoid valves offered as options.

Proximity switches/sensors

These are Ex approved devices certified under the following certificates:

PTB 00 ATEX 2032X	PTB 00 ATEX 2049X	PTB 01 ATEX 2191
PTB 00 ATEX 2048X	KEMA 02 ATEX 1090X	

Solenoid valves:

These are Ex approved devices certified under the following certificates that may be fitted to the 3600 and 8600 control monitors.

IBExU 01 ATEX 1060X	CML 17ATEX2046X	DMT01ATEX E026X

Mechanical switches:

The simple mechanical switch types are either MAGNUM XT90 Proximity Switch (Reed Switches SPDT) or SPST) or V3 Micro Mechanical Switches (SPDT or SPST), or Magnum switches (SW-110403UK, SW-071403UK, SW-020805UK, SW-040701UK and SW-030901UK).

Foundation Fieldbus Network Module:

FPAC2 FM14ATEX0006X

Optional DS Position Transmitter/CS Transmitters/RS Transmitter

These devices may be fitted to all Valve Monitors.

The manufacturer shall mark their products taking into account the following restrictions:

- The ATEX marking shall be either 1GD or 2GD dependent on the specification of the devices that are fitted.

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- The gas group shall be either IIB or IIC dependent on the specification of the devices that are fitted.
- The temperature class is dependent on the specification of the devices that are fitted.
- The EPL shall be either Ga or Gb dependent on the specification of the devices that are fitted and enclosure material/size.
- The lower ambient temperature is dependent on the specification of the devices that are fitted; in addition, the manufacturer shall not mark their products with a lower ambient temperature that is below the following limits:

Limit	Gasket & O-Ring material	Enclosure material	Devices allowed to be fitted
-40°C	Any	LG1 plastic, LG2 plastic, aluminium or stainless steel	Any
-50°C	Buna-N, Fluorosilicone or EPDM	Aluminium or stainless steel	Certificate PTB00ATEX2049X sensor models SJ3,5-SN, NJ10-30GK-SN, NJ4-12GK-SN
-60°C	Silicone	Aluminium or stainless steel	

- The maximum ambient temperature is dependent on devices that are fitted and is limited to +55°C for LG1 plastic enclosures and +60°C for metal or LG2 enclosures.

Variation 1 - This variation introduced the following change:

i. The introduction of a new re-designed LG2 enclosure for dust protection Group IIIC ‘Ex tb’ was approved a Special Condition for Safe Use was introduced as a result of this change.

Variation 2 - This variation introduced the following change:

i. Inclusion of the North American Model numbers corresponding to the European Model numbers as shown in the following table:

European model no.	North American model no.	Type
3300	5004 / 5044	Position
3600	711 / 722	Control
8300	XXXX	Position
8600	811	Control

Note: The 8300 currently does not have a North American equivalent series number, the XXXX is for future use if required.

Variation 3 - This variation introduced the following changes:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed in section 9, EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004, were replaced by EN 60079-0:2012 and EN 60079-11:2011, the markings in section 12 were updated accordingly. These standards now apply to all products.
ii. It was recognised that metal enclosures that are constructed in accordance with note 6 in drawing MS-060801UK, MS-070801UK, MS-070802UK and MS-070803UK can be marked -50°C. The notes associated with the marking and conditions of certification were amended accordingly.
iii. The removal of the Piezo Valve (HOERBIGER) (DMT 01ATEXE026X,) and the introduction of Nass Magnet GmbH type 1259 Solenoid Valve (PTB 02 ATEX 2154), the description was amended accordingly.

Variation 4 - This variation introduced the following changes:

i. The addition of the Piezo Valve (HOERBIGER) certified to DMT 01ATEXE026X.
ii. The addition of FPAC2 Foundation Fieldbus Valve Position Monitor certified to FM14ATEX0006X.
iii. The addition of a new terminal strip option.
iv. The addition of a range of Magnum switches (SW-110403UK, SW-071403UK, SW-020805UK, SW-040701UK and SW-030901UK).
v. The Special Condition for Safe Use relating to certified internal devices was amended to recognise the above changes.

Variation 5 - This variation introduced the following changes:

i. The equipment using metal enclosures may be used at -60°C when fitted with a silicone gasket and O-ring.
ii. The additional manufacturer's name and address was changed from, Westlock Controls Corporation, 280 N Midland Avenue, Saddle Brook, NJ 07662, USA to, Westlock Controls, 280 N. Midland Avenue, Saddle Brook, NJ 07663, USA.
iii. A Condition of Certification was amended; this is to clarify the construction of the equipment.

Variation 6 - This variation introduced the following change:

i. The standard EN 60079-11 in Section 9 was amended to correct a typographical error.

Variation 7 - This variation introduced the following changes:

i. Inclusion of additional model numbers. The description was amended accordingly.
ii. Update to ATEX certificate of a Solenoid Valve used in 3600 and 8600 control monitors.
iii. Update of Label drawing
iv. Update to Applicant's and Manufacturer's Name and Address.
Removal of applicant's name and address (UK branch) from certificate.
The Applicant's name was changed from "Westlock Controls" to "Westlock Controls Corp". The address remained unchanged.
The manufacturer's information is the same as applicant.

Variation 8 - This variation introduced the following changes:

i. Add an alternative DS Position transmitter model EL40272-XXXY-ZZZ.
ii. Addition of the new series D230, D240, D250, D241, D251 HART Position transmitters.

iii. Addition of new model 822 Valve Monitor.
iv. The description was amended to reflect these changes.

Variation 9 - This variation introduced the following changes:

i. The recognition of an alternative manufacturing location Crane Fluid & Gas Systems (Suzhou) Co., Ltd, No.1 RunSheng Road, ShengPu SIP, JiangSu Province, 215126, China.
ii. Conditions of Manufacture applicable to the equipment were listed on the certificate.

Variation 10 - This variation introduced the following changes:

i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012 and EN 60079-31:2009 were replaced by EN IEC 60079-0:2018 and IEC 60079-31:2022. The documentation was updated accordingly to recognise the new standards.
ii. Removal of the following approved devices from the report, the description was amended accordingly:

- CS Transmitter / RS Transmitter
- Proximity switch / sensor covered under PTB 99 ATEX 2219X
- Solenoid valve covered under PTB 02 ATEX 2154

iii. Inclusion of detail drawings SW-10115-XXX and SW-10297-XXX for V3 MECHANICAL SPDT & SPST switch which is already assessed under assessment report R52L17470A.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	28 August 2009	R52L17470E R52L17470F	The release of prime certificate.
1	17 May 2012	R27011A/00	The introduction of Variation 1.
2	07 February 2013	R29638A/00	The introduction of Variation 2.
3	04 August 2014	R70005635B	The introduction of Variation 3.
4	12 August 2015	R70023399A	The introduction of Variation 4.
5	29 September 2015	R70043488A	The introduction of Variation 5.
6	05 February 2016	R70064155A	The introduction of Variation 6.

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Issue	Date	Report number	Comment
7	27 June 2019	R70218432A	This Issue covers the following changes: • EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. *(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.)* • The introduction of Variation 7.
8	15 October 2019	1419	Transfer of certificate Sira 09ATEX2147X from Sira Certification Service to CSA Group Netherlands B.V.
9	12 February 2020	R80014373A	The introduction of Variation 8.
10	18 February 2022	R80100310A	The introduction of Variation 9.
11	02 February 2023	R80135973A	The introduction of Variation 10.

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

15.1 The user/installer shall install these products taking into account any restrictions or special conditions for safe use that are applicable to the previously certified devices that are used in them.

15.2 The various devices (switches, sensors and transmitters) shall be treated as separate intrinsically safe circuits.

15.3 WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD- Refer to the instructions on how to clean the equipment safely and prevent static charge build-up on the Grilamid enclosure or beacon (when fitted).

15.4 When the enclosure is manufactured from aluminium ignition sources due to impact and friction sparks may occur. This shall be considered when the monitor is being installed, particularly in locations that specifically require Group II, Category 1G equipment.

15.5 For all types of enclosures the maximum dust layer shall be no greater than 5 mm (T_5 135°C)

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 CSA Group Netherlands B.V. 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 Routine dielectric strength testing required at 500 V r.m.s. per clause 10.3 of EN 60079-11:2012. The voltage shall be increased steadily to the specified value in a period of not less than 10 s and then maintained for at least 60 s. The applied voltage shall remain constant during the test. The current

flowing during the test shall not exceed 5 mA r.m.s. at any time. The test shall be conducted between the equipment enclosure and the connections for all fitted apparatus.

17.4 The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA of any modifications of the devices that may impinge upon the explosion safety design of their products.

17.5 The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the special conditions for certification associated with these products, in addition, the manufacturer shall provide the user/installer with an appropriate copy of the certificate for each certified device that is fitted in the device.

17.6 The manufacturer shall mark their products taking into account the following restrictions:

- The ATEX marking shall be either 1GD or 2GD dependent on the specification of the devices that are fitted.
- The gas group shall be either IIB or IIC dependent on the specification of the devices that are fitted.
- The temperature class is dependent on the specification of the devices that are fitted.
- The EPL shall be either Ga or Gb dependent on the specification of the devices that are fitted and enclosure material/size.
- The lower ambient temperature is dependent on the specification of the devices that are fitted; in addition, the manufacturer shall not mark their products with a lower ambient temperature that is below the following limits:

Limit	Gasket & O-Ring material	Enclosure material	Devices allowed to be fitted
-40°C	Any	LG1 plastic, LG2 plastic, aluminium or stainless steel	Any
-50°C	Buna-N, Fluorosilicone or EPDM	Aluminium or stainless steel	Certificate PTB00ATEX2049X sensor models SJ3,5-SN, NJ10-30GK-SN, NJ4-12GK-SN
-60°C	Silicone	Aluminium or stainless steel	

- The maximum ambient temperature is dependent on devices that are fitted and is limited to +55°C for LG1 plastic enclosures and +60°C for metal or LG2 enclosures.

Certificate Annexe

Certificate Number: **Sira 09ATEX2147X**

Equipment: **D230, D240, D250 Rotary Valve Position Control Transmitter Hart Enabled. D241, D251 Rotary Valve Position Transmitters Hart Enabled 3300 (5004/5044) Series and 8300 (XXXX) Series Position Monitors 3600 (711/722/7304/7344) Series and 8600 (811/822/7345) Series Control Monitors**

Applicant: **Westlock Controls Corp**

Issue 0

Drawing no.	Sheet	Rev.	Date (Sira stamp)	Description
MS-060801UK	1 to 3	A	30 Apr 09	3300 Ex ia ATEX / IEC Approval Drawing
MS-070801UK	1 to 3	A	30 Apr 09	3600 Ex ia ATEX / IEC Approval Drawing
MS-070802UK	1 to 3	A	30 Apr 09	8300 Ex ia ATEX / IEC Approval Drawing
MS-070803UK	1 to 5	A	30 Apr 09	8600 Ex ia ATEX / IEC Approval Drawing
LB-020901UK	1 to 3	-	24 Aug 09	3300, 3600, 8300 & 8600 ATEX / IECEx Ex ia Label Master

The following drawings describing the Westlock CS Transmitter are also included:

Drawing no.	Sheet	Rev.	Date (Sira stamp)	Description
SC-10128	1 of 1	F2	30 Apr 09	CS Surface Mount (Schematic)
EL-30264	1 of 1	J	30 Apr 09	PCB Assembly CS Surface Mount PCB

Issue 1

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
MS-070802UK	1 to 5	B	11 May 12	8300 Ex ia ATEX / IEC APPROVAL DRAWING
MS-070803UK	1 to 6	B	11 May 12	8600 Ex ia ATEX / IEC APPROVAL DRAWING
LB-020901UK	1 to 6	A	11 May 12	ATEX / IECEx Ex ia LABEL MASTER

Issue 2

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
LB-020901UK	1 to 6	B	07 Feb 13	330 & ATEX/IECEx Ex ia Label Master

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
LB-020901UK	1 of 4	C	28 Jul 14	3300, 3600, 8300 & 8600 AVID Ex ia ATEX/IECEx Master Label Drawing
MS-060801UK	1 to 3	B	28 Jul 14	3300 Ex ia ATEX/IEC Approval Drawing
MS-070801UK	1 to 3	B	28 Jul 14	3600 Ex ia ATEX/IEC Approval Drawing
MS-070802UK	1 to 5	C	28 Jul 14	8300 Ex ia ATEX/IEC Approval Drawing
MS-070803UK	1 to 6	C	28 Jul 14	8600 Ex ia ATEX/IEC Approval Drawing

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
LB-020901UK	1 of 4	D	15 Jul 15	3300, 3600, 8300 & 8600 AVID Ex ia ATEX/IECEx Master Label Drawing
MS-060801UK	1 to 3	C	19 May 15	3300 Ex ia ATEX/IEC Approval Drawing
MS-070801UK	1 to 3	C	19 May 15	3600 Ex ia ATEX/IEC Approval Drawing
MS-070802UK	1 to 3	D	19 May 15	8300 Ex ia ATEX /IEC Approval Drawing
MS-070803UK	1 to 6	D	19 May 15	8600 Ex ia ATEX/IEC Approval Drawing
MS-011501UK	1 of 1	A	19 May 15	Magnum IL & EOL ATEX/IECEx approval drawing
SW-10000-LXX	1 of 1	B	24 Jul 15	Switch MGM (N) SPDT CBL-(3) 7”-8”” LDS HRM- SWITCH PRX+ 6850
SW-10108-LXX	1 of 1	B	24 Jul 15	Switch MGM (N) XT-90LP SPDT BLU-CBL (3) 7”-8” LDS RHDM-CONT (HRM-SWITCH PRX+6880)

Certificate Annexe

Certificate Number: **Sira 09ATEX2147X**

Equipment: **D230, D240, D250 Rotary Valve Position Control Transmitter Hart Enabled. D241, D251 Rotary Valve Position Transmitters Hart Enabled 3300 (5004/5044) Series and 8300 (XXXX) Series Position Monitors 3600 (711/722/7304/7344) Series and 8600 (811/822/7345) Series Control Monitors**

Applicant: **Westlock Controls Corp**

Issue 5

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
LB-020901UK	1 to 4	E	09 Sep 15	3300,3600,8300 and 8600 ATEX/IECEx Label
MS-060801UK	1 to 3	D	09 Sep 15	3300 ATEX/IEC Approval Drawing
MS-070801UK	1 to 3	D	09 Sep 15	3600 ATEX/IEC Approval Drawing
MS-070802UK	1 to 5	E	09 Sep 15	8300 ATEX/IEC Approval Drawing
MS-070803UK	1 to 6	E	09 Sep 15	8600 ATEX/IEC Approval Drawing

Issue 6 – no new drawings were introduced.

Issue 7

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
LB-020901UK	1 to 3	F	10 Jun 19	3300, 3600, 8300, 8600 ATEX/IECEx Ex ia Label Master

Issue 8 – no new drawings were introduced.

Issue 9

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
LB-020901UK	1 to 3	G	13 Jan 20	*3300, 3600, 8300, 8600, 5004, 5044, D230, D240, D250, D231, D241, D251 ATEX / IECEx Ex ia Label Master
MS-10977	1 of 1	-	13 Jan 20	8600/D230/D240/D250 Ex ia Approval drawing
MS-10982	1 of 1	-	13 Jan 20	Model D230/D240/D250/ D241/D251 Installation drawing for Intrinsically Safe Apparatus
MS-10984	1 of 1	-	13 Jan 20	Model 3300/3600/D231/D241/D251 Ex ia Approval drawing
MS-10985	1 to 2		13 Jan 20	Model 3300/8300/D231/D241/D251 Installation drawing for Intrinsically Safe Apparatus (Pneumatrol coil)

Issue 10

Drawing	Sheets	Rev.	Date (stamp)	Description
LB-020901UK	1 to 3	H	01 Feb 22	*3300, 3600, 8300, 8600, 5004, 5044, D230, D240, D250, D231, D241, D251 ATEX / IECEx Ex ia Label Master

Issue 11

Drawing	Sheets	Rev.	Date (Stamp)	Title
MS-070803UK	1 to 6	G	28 Nov 22	8600, D23X, D24X, D25X Ex IA ATEX / IEC APPROVAL DRAWING
MS-070802UK	1 to 5	G	28 Nov 22	8300, D23X, D24X, D25X Ex IA ATEX / IEC APPROVAL DRAWING
MS-070801UK	1 to 3	F	28 Nov 22	3600, D23X, D24X, D25X Ex IA ATEX / IEC APPROVAL DRAWING
MS-060801UK	1 to 3	F	28 Nov 22	3300 (5004/5044), D23X, D24X, D25X Ex ia ATEX / IEC APPROVAL DRAWING
LB-020901UK	1 to 3	J	28 Nov 22	ATEX / IECEx Ex ia LABEL MASTER: 3300 /3600/8300/8600/5004/5044/D230/D240/D250/ D241/D251/711/722/811/822/7304/7344/7345
SW-10115-XXX	1 of 1	F	15 Nov 22	SWITCH WIRING SOLDERING DIAGRAM

Certificate Annexe

Certificate Number: **Sira 09ATEX2147X**

Equipment: **D230, D240, D250 Rotary Valve Position Control Transmitter Hart Enabled. D241, D251 Rotary Valve Position Transmitters Hart Enabled 3300 (5004/5044) Series and 8300 (XXXX) Series Position Monitors 3600 (711/722/7304/7344) Series and 8600 (811/822/7345) Series Control Monitors**

Applicant: **Westlock Controls Corp**

Drawing	Sheets	Rev.	Date (Stamp)	Title
SW-10297-XXX	1 of 1	-	15 Nov 22	SWITCH WIRING SOLDERING DIAGRAM WEIPING GOLD PLATED CONTACT