1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 17ATEX2181X** Issue: **0**

4 Equipment: **Model K-20 or AVID EZ CAL Valve Position Controller**

5 Applicant: **Westlock Controls Corporation**

6 Address: 280 N. Midland Ave Ste. 258
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 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 60079-0:2011 Ed. 6 EN 60079-11:2011 Ed. 6 EN 60079-31:2013 Ed. 2

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:

Stainless Steel or Polymeric enclosure

II 1G
Ex ia IIC T4 Ga

Ta = -40°C to +85°C

Aluminium enclosure

II 1G
II 2D
Ex ia IIC T4 Ga
Ex tb IIIC T87 Db
Ta = -40°C to +85°C

Project Number 70117627

N Jones
Certification Manager

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE **Sira 17ATEX2181X**
Issue 0

13 **DESCRIPTION OF EQUIPMENT**

The Valve Position Controller can be housed in either a Grilamid TR90UV polymeric or 316 stainless steel enclosures rated Ex ia IIC T4 Ga or a A360.2 type aluminium enclosure rated Ex ia IIC T4 Ga; Ex tb IIIC T87 Db.

The device consists of a fully encapsulated electronic module, connection terminals and a pair of optional galvanically isolated reed switches which are externally connected to a separate energy limited supply. The electronic module has two main circuitries isolated by an optocoupler. Each circuitry – input and output 4-20 mA loops are connected to separate external energy limited supply.

Nomenclature coding:
K20XISyXXXXXX:
Where y =:
E – Polymeric enclosure
A – Aluminium enclosure
S – Stainless steel enclosure

Entity Parameters			
4-20 In (Term. 7 & 8)	4-20 Out (Term. 9 & 10)	Switch (Term. 1–3 / 4–6)	Inductive Sensor (Term. 1–2 / 3-4)
Ui = 30V Ii= 100mA Pi= 0.75W Ci = 0nF Li = 0µH	Ui = 30V Ii= 100mA Pi= 0.75W Ci = 1nF Li = 0µH	Ui = 30V Ii= 25mA Pi= 2W Ci = 0 nF Li = 0 µH	Ui = 16V Ii= 25mA Pi= 0.034W Ci = 40 nF Li = 50 µH

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	20 June 2017	R70117627A	The release of the prime certificate.

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

15.1 Measures shall be taken to avoid ignition due to impact for models utilizing aluminium enclosures.

15.2 Measures shall be taken to avoid ignition due to electrostatic charges for models utilizing polymeric enclosures.

15.3 A certified cable gland suitably rated for working ambient temperature range maintaining IP65 rating shall be used.

15.4 Field wiring using multi-conductor cable shall either have each conductor enclosed in grounded metal shield or each conductor have minimum 0.25mm (0.01") insulation thickness.

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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.

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Certificate Annexe

Certificate Number: **Sira 17ATEX2181X**

Equipment: **Model K-20 or AVID EZ CAL Valve Position Controller**

Applicant: **Westlock Controls Corporation**

Issue 0

Drawing no.	Sheets	Rev.	Stamp date	Description
EN11580	1 of 1	D	09 Jun 17	Main Enclosure top details
EN11090	1 of 1	F	09 Jun 17	Main Enclosure bottom details
EL-11231	1 of 1	-	09 Jun 17	K20 Electronics Canister
EL-11232	1 of 1	-	09 Jun 17	K20 Canister Transducer Barrier
EL-11233	1 of 1	-	09 Jun 17	K20 Canister Hall Sensor Barrier
EL-11234	1 of 1	-	09 Jun 17	K20 Canister Hall Sensor Cap Barrier
SC10260	1 of 1	B	09 Jun 17	K20 Transition Board Schematic
EL20804	1 to 7	B	09 Jun 17	K20 Transition Board PCB
EL30606	1 to 2	C	09 Jun 17	K20 Transition Board Assembly
SC10261	1 of 1	B	09 Jun 17	Touch Board Schematic
EL20805	1 to 6	B	09 Jun 17	Touch Board PCB
EL30607	1 of 1	C	09 Jun 17	Touch Board Assembly
SC10262	1 to 4	K	09 Jun 17	Processor Board Schematic
EL20806	1 to 12	D	09 Jun 17	Processor Board PCB
EL30608	1 to 3	E	09 Jun 17	Processor Board Assembly
SC10263	1 of 1	B	09 Jun 17	Sensor Board Schematic
EL20807	1 to 10	A	09 Jun 17	Sensor Board PCB
EL30609	1 to 2	C	09 Jun 17	Sensor Board Assembly
EL-40246	1 of 1	C	09 Jun 17	Module Assembly
MS-10895	1 to 2	B	09 Jun 17	K20 Certification Drawing
WD-12316	1 of 1	-	09 Jun 17	Control Drawing K-20
LB-11731-001	1 of 1	-	09 Jun 17	Terminal connections drawing
LB-11731-002	1 of 1	-	09 Jun 17	K20 Terminal Strip Label 10 PT Mech/MGM
LB-11731-003	1 of 1	-	09 June 17	K20 Terminal Strip Card 10 PT Namur Inductive
LB-11723	1 to 2	-	09 Jun 17	Marking drawing

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