# Certificate of Compliance

**Certificate:** 70130633 **Master Contract:** 154155

**Project:** 70130633 **Date Issued:** 2017-05-12

**Issued to:** **Westlock Controls Corporation**
**280 North Midland Ave Suite 258**
**Saddle Brook, New Jersey 07663**
**USA**

**Attention: Anthony R. Paolini**

***The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.***

**Issued by:** Konstantin Rybalko
Konstantin Rybalko

**PRODUCTS**

**CLASS - C225804** - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations
**CLASS - C225884** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity-- For Hazardous Locations - Certified to US Standards

**Class I, Div. 1, Groups A, B, C & D, T4;**
**Class I, Zone 0, AEx/Ex ia IIC T4 Ga;**
**Type 4X, IP 65**

Model K-20 or AVID EAZICAL 4 – 20 mA Valve Position Controller, Intrinsically Safe, housed in polymeric or stainless still enclosure; Rated 30 V dc, 100 mA 0.75 W max., Temperature Code T4, Ambient working temperature range –40 to +85$^{O}$C. Must be installed per control drawing WD-12316.

**Class I, Div. 1, Groups A, B, C & D, T4;**
**Class II, Div. 1, Groups E, F & G;**
**Class III;**
**Class I, Zone 0, AEx/Ex ia IIC T4 Ga;**
**Class II, Zone 21, AEx/Ex tb IIIC T87 Db;**
**Type 4X, IP 65**

**Certificate:** 70130633 **Master Contract:** 154155
**Project:** 70130633 **Date Issued:** 2017-05-12

Model K-20 or AVID EAZICAL 4 – 20 mA Valve Position Controller, Intrinsically Safe, housed in aluminum enclosure; Rated 30 V dc, 100 mA, 0.75 W max., Temperature Code T4, Ambient working temperature range –40 to +85$^{O}$C. Must be installed per control drawing WD-12316

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

May be equipped with either two 3-wire switches or two 2-wire inductive sensors.

Notes:

1. For Canadian Installations, metallic equipment case must be bonded to ground according to Section 18-182 of the CEC, Part 1.
2. For US Installations, metallic equipment case must be bonded to ground according to Article 501.16 of the NEC.
3. Measures shall be taken to avoid ignition due to impact for models utilizing aluminum enclosures.
4. Measures must be taken to avoid ignition due to electrostatic charges for models utilizing polymeric enclosures.
5. The certified cable gland suitably rated for working ambient temperature range maintaining IP65 / Type 4X rating shall be used.
6. Field wiring using multiconductor cable shall either have each conductor enclosed in grounded metal shield or each conductor have minimum 0.25mm (0.01”) insulation thickness.
7. The above model is permanently connected, may be installed in Pollution Degree 4 environment, Installation Category I

**CLASS - C225803** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
**CLASS - C225883** - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive-Systems-For Hazardous Locations-Certified to U.S. Standards

**Class I, Div. 2, Groups A, B, C & D; T4;**
**Type 4X, IP 65**

Model K-20 or AVID EAZICAL 4 – 20 mA Valve Position Controller, housed in polymeric or stainless still enclosure; Rated 30 V dc, 100 mA 0.75 W max., Temperature Code T4, Ambient working temperature range –40 to +85$^{O}$C. Must be installed per control drawing WD-12316.

**Certificate:** 70130633 **Master Contract:** 154155
**Project:** 70130633 **Date Issued:** 2017-05-12

**Class I, Div. 2, Groups A, B, C & D, T4;**
**Class II, Div. 2, Groups F & G;**
**Class III;**
**Type 4X, IP 65**

Model K-20 or AVID EAZICAL 4 – 20 mA Valve Position Controller, housed in aluminum enclosure; Rated 30 V dc, 100 mA, 0.75 W max., Temperature Code T4, Ambient working temperature range –40 to +85$^{O}$C. Must be installed per control drawing WD-12316.

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

May be equipped with either two 3-wire switches or two 2-wire inductive sensors.

Notes:

1. For Canadian Installations, metallic equipment case must be bonded to ground according to Section 18-182 of the CEC, Part 1.
2. For US Installations, metallic equipment case must be bonded to ground according to Article 501.16 of the NEC.
3. The certified cable gland suitably rated for working ambient temperature range maintaining IP65 / Type 4X rating shall be used.
4. Field wiring using multiconductor cable shall either have each conductor enclosed in grounded metal shield or each conductor have minimum 0.25mm (0.01”) insulation thickness.
5. The above model is permanently connected, may be installed in Pollution Degree 4 environment, Installation Category I

## APPLICABLE REQUIREMENTS

| | | |
|---|---|---|
| CAN / CSA C22.2 No 61010-1: 2012 | - | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements |
| ANSI / UL 61010-1 3rd Ed. | - | Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements |
| C22.2 NO. 213 / ISA-12.12.01: 2016 | - | Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations |
| UL 913: 2013 | - | Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations |
| CAN/CSA C22.2 No. 94.2: 2007 | - | Enclosures for electrical equipment, environmental considerations |
| UL 50E 2nd Ed.: 2015 | - | Enclosures for Electrical Equipment, Environmental Considerations |
| CAN/CSA-C22.2 No. 60529: 2016 | - | Degrees of protection provided by enclosures (IP Code) |
| CAN/CSA-C22.2 No. 60079-0: 2015 | - | Explosive atmospheres – Part 0: Equipment – General requirements |
| UL 60079-0 6th Ed.: 2013 | - | UL Standard for Safety Explosive atmospheres – Part 0: Equipment – General requirements – Sixth Edition |
| CAN/CSA-C22.2 No. 60079-11: 2014 | - | Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” |
| ANSI/ISA-60079-11 (12.02.01): 2014 | - | Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety “i” (Edition 6.2) |
| CAN/CSA-C22.2 No. 60079-31: 2015 | - | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |
| ANSI/ISA-60079-31 (12.10.03): 2015 | - | Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t” (Edition 2) |

# *Supplement to Certificate of Compliance*

**Certificate:** 70130633 **Master Contract:** 154155

***The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.***

## Product Certification History

| Project | Date | Description |
|---|---|---|
| 70130633 | 2017-05-12 | Certification of Valve Position Controller Model K-20 for the markings:<br>Tamb: -40C to +85C<br>Class I, Div. 1, Groups A, B, C & D, T4;<br>Class I, Zone 0, AEx/Ex ia IIC T4 Ga;<br>Class I, Div. 2, Groups A, B, C & D; T4;<br>Type 4X, IP 65 In plastic and stainless still enclosures;<br>Class I, Div. 1, Groups A, B, C & D, T4;<br>Class II, Div. 1, Groups E, F & G;<br>Class III;<br>Class I, Zone 0, AEx/Ex ia IIC T4 Ga;<br>Class II, Zone 21, AEx/Ex tb IIIC T87 Db;<br>Class I, Div. 2, Groups A, B, C & D, T4;<br>Class II, Div. 2, Groups F & G;<br>Type 4X, IP 65 In aluminum enclosure |