

CERTIFICATE OF CONFORMITY

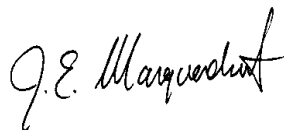
- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS
- Certificate No:** FM18CA0163X
- Equipment:**
(Type Reference and Name) 360/366 Control monitor ,
460 / 470 / SS421 EPIC Position Transmitter
and the Series GK, GM, GN and GS Valve Position
Monitor
- Name of Listing Company:** Westlock Controls Corp
- Address of Listing Company:** 280 N Midland Ave, Ste 258
Saddle Brook NJ 07663
United States
- The examination and test results are recorded in confidential report number:

3029510 dated 18th July 2008
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA-C22.2 No. 0.4:R2013, CSA-C22.2 No. 0.5:R2012, CSA-C22.2 No. 25:R2014,
CSA-C22.2 No. 30:R2012, CSA-C22.2 No. 142:R2009, CSA-C22.2 No. 213:R2008,
CSA-C22.2 No. 94:R2011, CSA-C22.2 No. 60529:R2010,
CAN/ CSA E60079-0:2007, CAN/ CSA E60079-1:2007
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- Equipment Ratings:

360 or 366 Control Monitor
Explosionproof for Class I, Division 1, Groups *B, C and D; T5 Temperature Class;
Dust-ignitionproof for Class II/III Division 1, Groups E, F and G; T5 Temperature Class;
Non-Incendive for Class I, Division 2, Groups A, B, C, and D; T5 Temperature Class;
hazardous locations, indoors and outdoors (Type 4, 4X, and 6P) when provided with solenoid coil; with an ambient temperature rating of -50°C to +60°C.

Certificate issued by:



J. E. Marquedant
Vice President, Manager, Electrical Systems

September 13, 2019
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

SCHEDULE

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460 and 470 EPIC Position Transmitter.

Explosionproof for Class I, Division 1, Groups *B, C and D; T5 Ta=+85°C;
Non-Incendive for Class I, Division 2, Groups A, B, C, and D; T4 Ta=+40°C;
Dust-ignitionproof for Class II/III Division 1, Groups E, F and G; T5 Ta= +85°C;
hazardous locations, indoors and outdoors (Type 4, 4X, 6P and IP68). Derated for Group C and D when provided with solenoid coil.

SS421 EPIC Position Transmitters

Explosionproof for Class I, Division 1, Groups *B, C and D; T5 Ta=+85°C;
Suitable for Non-Incendive for Class I, Division 2, Groups A, B, C, and D; T4 Ta=+40°C;
Dust-ignitionproof for Class II/III Division 1, Groups E, F and G; T5 Ta= +85°C;
hazardous locations, indoors and outdoors (Type 4, 4X, 6P and IP68). Derated for Group C and D when provided with solenoid coil.

The Series GK, GM, GN and GS Valve Position Monitor

Explosionproof for Class I, Division 1, Groups C and D; T5 Ta= +85C
Dust-ignitionproof for Class II/III Division 1, Groups E, F and G; T5 Ta= +85C;
Non-Incendive for Class I, Division 2, Groups A, B, C, and D; T4 Ta=+40C for hazardous locations, indoors and outdoors (Type 4, 4X, 6P and IP66).
Flameproof for Class I, Zone Ex d IIB T6 Ta = -50°C to 60°C Hazardous Locations and an indoor/outdoor IP66 environmental rating.

11. The marking of the equipment shall include:

360 or 366 Control Monitor

Class I Division 1, Groups *B, C, D; T5 Ta = -50°C to +60°C;
Class II / III, Division 1, Groups E, F, G; T5 Ta = -50°C to +60°C;
Class I, Division 2, Groups A, B, C, D, T5 Ta=-50°C to +60°C;
Type 4, 4X, 6P;

460 and 470 EPIC Position Transmitter.

Class I Division 1, Groups *B, C, D; T5 Ta = +85°C;
Class II / III, Division 1, Groups E, F, G; T5 Ta = +85°C
Class I, Division 2, Groups A,B, C, D, T4 Ta= +40°C;
Type 4, 4X, 6P; IP68

SS421 EPIC Position Transmitters

Class I Division 1, Groups *B, C, D; T5 Ta = +85°C;
Class II / III, Division 1, Groups E, F, G; T5 Ta = +85°C
Class I, Division 2, Groups A,B, C, D, T4 Ta= +40°C;
Type 4, 4X, 6P; IP68

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The Series GK, GM, GN and GS Valve Position Monitor
Class I Division 1, Groups C, D; T6 Ta = -50°C to +60°C;
Class II / III, Division 1, Groups E, F, G; T6 Ta = -50°C to +60°C;
Class I, Division 2, Groups A,B, C, D, T6 Ta = -50°C to +60°C;
Class I, Zone 1 Ex d IIB T6 Ta = -50°C to +60°C;
Type 4, 4X, 6P; IP66

12. **Description of Equipment:**

General – The 360 & 366, Control Monitors and 460, 470 and SS421 Position Transmitters are for use in valve positioning applications with a solenoid coil for actuator control rated for Groups C and D locations. The enclosure tested consists of one aluminum compartment enclosure with a threaded cover and three entries. The apparatus without solenoid coil is rated for use in Groups A, B, C and D hazardous (classified) locations (Groups B, C and D for Canada).

The Series GK, GM, GN and GS Valve Position Monitor is a magnetic device which senses the presence or absence of ferrous material, and actuates internal switches with pneumatic pressure and utilizes a visible beacon indicator which signals valve status (open or closed) and valve position.

Construction – The 360 & 366 enclosure has a shaft passing through the base of the enclosure, whereas for the 460, 470 and SS421 enclosure, the shaft is replaced by a 0.623 inch diameter, 2.56 inch long stainless steel tube. The enclosure also contains switches which are connected to a connection terminal strip located inside the enclosure. The switches are operated by changes in the shaft position for the 360/ 366 models or for the 460/ 470/ SS421 models. A Hall Effect Sensor is potted inside the stainless steel tube of the 460/ 470/ SS421. The 460/ 470/ SS421 enclosure also contains a terminal strip for all input/output wiring and one circuit board. The SS421 is a stainless steel version of the 460/ 470 aluminum models.

The Series GK, GM, GN and GS Valve Position Monitor consists of a solenoid housing assembly that threads into a cast aluminium enclosure. The compressed air or inert gas to the internal pneumatically operated switch is made by through a sinter arrestor in the pneumatic air supply, pneumatic air return and pneumatic air exhaust from the internal switch located within the enclosure which provides a pneumatic signal to show that the valve is either opened or closed. An additional crimped ribbon flame arrestor is press fit into the side of the enclosure. For protection against the entrance of water, O-rings are provided between the aluminium enclosure cover and base, between the protruding shaft and aluminium enclosure, between the solenoid housing and aluminium enclosure and in the solenoid housing assembly. The maximum operating pressure for the solenoid valve is 150 psi (10.3 Bar).

Ratings – The Series 360 and 366 Position Transmitters ambient temperature range of -50°C to +60°C with an environmental rating of Type 4, 4X, and 6P;

The Series 460/ 470/ SS421 Position Transmitters Explosionproof and Dustexclusion ambient operating temperature range is -20°C to 85°C and non-incendive ambient operating temperature range of -20°C to 40°C and environmental rating of Type 4, 4X, 6P and IP68;

The Series GK, GM, GN and GS Valve Position Monitor ambient operating temperature range of -50°C to 60°C with an environmental rating of Type 4, 4X, 6P and IP66;

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Models 360, 366

360-abcdefgh or 366-abcdefgh. Control Monitor.

- a = Shaft: S, D or N.
- b = Beacon type: BY or RG.
- c = Conduit: 1B or 2B.
- d = Internal switch selection: (Mechanical non - NI rated) 2M02, 2M04 or 4M02;
(Hermetically Sealed – NI rated) 2M06, 2M12, 2M17, 2M18, 4M06 or 4M12
- e = Position Transmitter: 00, CS, or DS.
- f = *Solenoid Coil: 24Vdc, 120 Vac or None (*Derated to Group C and D when provided with solenoid coil).
- g = Valve Body: Any (Not safety related).
- h = Valve Options: 0, X, M, L, R, N or E.

The Series 460 and 470 Position Transmitters

Dabcdefg. EPIC Position Transmitter.

- a = Enclosure: 460 or 470.
- b = Valve Type: LV, LR, RO or RR.
- c = ESD / PST: 0 or 1.
- d = Conduit Qty: 3 (¾ inch - with solenoid) or 4 (¾ inch - without solenoid).
- e = *Solenoid Coil: 24 Vdc or None (*Derated to Group C and D when provided with solenoid coil).
- f = Valve Body: 00 (none), 22, 32, 42, 52, 23, 33, 34, 43, 53 and 54.
- g = Valve Feature: 0, V or I.

The EPIC Position Transmitters

SS421abXcdef. EPIC Position Transmitters.

- a = Enclosure: 1 (#60 Aluminum) or 2 (#70 Stainless Steel).
- b = Application Type: LV, LR, RO or RV.
- c = Conduit: 1, 2, 3 or 6.
- d = *Solenoid: 2100, 2500, 3100, 3500, 4100, 4500, 5100, 5500 or None (*Derated to Group C and D when provided with solenoid coil).
- e = Special operation: 0 or 1.
- f = Beacon option: two digits.

The Series GK, GM, GN and GS Valve Position Monitor

Ga – bcdefghij. Valve Positioner Monitor.

- a = Shaft: S, N, K or M.
- b = Conduits: 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B or C.
- c = Beacon type: By, B1, B3, B5, B7, B9, RG, SP or FC.
- d = Number of switches: 1, 2, 3 or 4.
- e = Switch type: A, B, C, D, E, F, G, H, I, J, K, M, N, O, or P.
- f = Solenoid (Voltage): 0, 1, 2, 3, 4, 5, 6, 7, or 9.
- g = Solenoid (Material): 0, 1, 2, 3 or 4.
- h = Solenoid (Cv): 0, 1, 2, 3 or 4.
- i = Solenoid (Options): 0, M, L, E, R, or N.
- j = Solenoid (Special features): 0 or 1

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13. Specific Conditions of Use:

Models 360, and 366 Control Monitor,

NONE

Models 460, 470 and 421 Position Transmitters

NONE

The Series GK, GM, GN and GS Valve Position Monitor

- 1) Consult the manufacturer if dimensional information on the flameproof joints is necessary.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

| Date | Description |
|---------------------------------|--|
| 18 th July 2008 | Original Issue. |
| 19 th February 2019 | <u>Supplement 7:</u> Report Reference: – RR217405 Dated 19 th February 2019 Description of the Change: Update certificate to new format. Addition of new model. |
| 13 th September 2019 | <u>Supplement 8:</u> Report Reference: – RR219379 Dated 13 th September 2019 Description of the Change: Added additional model code 'DS'. |

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