



# Certificate of Compliance

**Certificate:** 1165862

**Master Contract:** 156279

**Project:** 80087753

**Date Issued:** 2021-11-15

**Issued To:** Mid-West Instrument A Division of Astra Associates, Inc  
6500 Dobry Dr  
Sterling Heights, Michigan, 48314  
United States

**Attention:** Ron Schmit

*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:** *Andrea Ongaro*  
Andrea Ongaro



## **PRODUCTS**

CLASS - C321806 - INDUSTRIAL CONTROL EQUIPMENT Miscellaneous Apparatus - For Hazardous Locations

CLASS - C321886 - INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus For Hazardous Locations-Certified to U.S. Standards

## **PART A (removed – product obsolete)**

### **PART B:**

Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G:

Pressure actuated (piston type), magnetically operated switches, Max working pressure 4000 psi

Model # 220-QQ-QQ-(QQQQ)- AXY,

Model # 220-QQ-QQ-(QQQQ)- BXY,

Diaphragm type, Max working pressure 1500 psi



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Model # 240-QQ-QQ-(QQQQ)- AXY,  
Model # 240-QQ-QQ-(QQQQ)- BXY,

Both types with or without indicating gauge; 1 to 2 SPDT/SPST outputs or 4-20mA Transmitter rated as identified below.

Temperature Code T6, Enclosure Type 4. Conduit interface ½” FNPT, with terminal strip for field wiring.

Q = Not Applicable

A, ~~Ø~~ B, or W for Electrical Configurations field

X = A or T For Electrical Specification Input Options

Y = A,E,F,G, H, or T for Output Options

The fields in parenthesis are optional and can vary from a quantity of 1 to 4.

Output Ratings are as follows:

<u>Option</u>	<u>Contact</u>	<u>Power</u>	<u>Current</u>	<u>Voltage</u>	<u>Comments</u>	<u>Temp Code</u>
A	SPDT	3W	0.25A	125 Vac/Vdc	Reed Switch	T6
E, F, G	SPST	60W	3A	240 Vac/Vdc	Reed Switch	T6
H	SPDT	60W	1A	240 Vac/Vdc	Reed Switch	T6
W	N/A	N/A	0.02A	8-28 Vdc	Transmitter	T6

Notes:

- (1) For reed switch outputs the product of the switching voltage and current shall not exceed the power rating.
- (2) Gasket **Must** be installed for Enclosure Type 4



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**PART C:**

Class I, Division 1, Groups B, C and D; Class II, Division 1, Groups E, F and G:

Pressure actuated (piston type), magnetically operated switches, Max working pressure 4000 psi

- Model # 220-QQ-QQ-(QQQQ)- JXY,
- Model # 220-QQ-QQ-(QQQQ)- KXY,
- Model # 220-QQ-QQ-(QQQQ)- RXY,
- Model # 220-QQ-QQ-(QQQQ)- SXY,
- Model # 220-QQ-QQ-(QQQQ)- TTT,

Diaphragm type, Max working pressure 1500 psi

- Model # 240-QQ-QQ-(QQQQ)- JXY,
- Model # 240-QQ-QQ-(QQQQ)- KXY,
- Model # 240-QQ-QQ-(QQQQ)- RXY,
- Model # 240-QQ-QQ-(QQQQ)- SXY,
- Model # 240-QQ-QQ-(QQQQ)- TTT,

Both types with or without indicating gauge; 1 to 2 SPDT/SPST outputs; with or without 1 or 2 power relay outputs or 4-20mA Transmitter.

Rated as identified below. Temperature Code is T4A or T6 as noted below.  
 Conduit interface is 1/2" FNPT, with terminal strip for field wiring.

Note :

- Q = Not Applicable
- J, K, R, S, or T for Electrical Configurations field
- X = A,B,C,D,E,F,G, ~~ø~~ H, or T For Electrical Specification Input Options
- Y = A,E,F,G,H, R, or T for Output Options
- The fields in parenthesis are optional and can vary from a quantity of 1 to 4.

Output Ratings are as follows:

<u>Option</u>	<u>Contact</u>	<u>Power</u>	<u>Current</u>	<u>Voltage</u>	<u>Comments</u>	<u>Temp Code</u>
A	SPDT	3W	0.25A	125 Vac/Vdc	Reed Switch	T6
E, F, G	SPST	60W	3A	240 Vac/Vdc	Reed Switch	T6
H	SPDT	60W	1A	240 Vac/Vdc	Reed Switch	T6
R	DPDT		10A	30/240 Vdc/Vac	Relay	T4A
T	N/A	N/A	0.02A	8-28 Vdc	Transmitter	T6

**Notes:**

- (1) For reed switch outputs the product of the switching voltage and current shall not exceed the power rating.
- (2) Seal not required



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- (3) Seal Required within 450MM (18 inches).
  - (4) Gasket shall **not** be installed into enclosure

### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 14-18 - Industrial Control Equipment  
CSA Std C22.2 No. 25-2017 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations  
CSA Std C22.2 No. 30-2020 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations  
CAN/CSA C22.2 No. 94.2:20 – Enclosures for Electrical Equipment, Environmental Considerations  
UL 50E, 3<sup>rd</sup> Edition – Enclosures for Electrical Equipment, Environmental Considerations  
UL 508-2018 18<sup>th</sup> Ed – Industrial Control Equipment  
UL 1203-2018 Fifth Edition - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations  
UL 121201-2017 Ninth Edition (R2019)

### Notes:

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Products certified under Class C321806, C321886 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## Supplement to Certificate of Compliance

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

### Product Certification History

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Project	Date	Description
80087753	2021-11-15	Update of cCSAus report 165862 for Model 220 and 240 Series, for addition of another set of tag holes in cover, 6" dial option, silicone or glycerin fill for dial options, change to shatterproof dial assembly option, follower pointer option for 4-1/2" dial assemblies, and addition of Class I, Division 2 magnetic pressure switch with transmitter option. This project includes updates to latest editions of standards.
2576530	2013-03-11	Update of Report 1165862 to include new drawings 113869 and 113868 to combine and replace all individual drawings for Model 220 and 240 respectively. Correct the tensile strength from 194000 to 194350 psi per the drawing shown.
2295547	2010-05-18	Update of Report 1165862 to include revised drawing.
2116193	2009-01-28	Update to report 1710825 to include revised drawings.
1710825	2005-10-13	Update Report 1165862, include revised drawings.
1594329	2004-12-20	Update Report 1165862; Evaluate to include Group B with revised enclosure construction; Add Model 240-QQ-QQ-(QQQQ)-WXY
1165862	2002-02-16	Model 220 - Pressure actuated (piston type), magnetically operated switches, Model #220-QQ-QQ-(QQQQ)-WXY, with or without indicated gauge; 1 to 2 SPDT/SPST outputs with or without 1 or 2 power relay outputs. Max working pressure 4000 psi for use in Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F, and G, and Class I, Division2, Groups A, B, C, and D; Class II, Division 2, Groups F and G.