



Certificate of Compliance

Certificate: 1057940 **Master Contract:** 156279 (040629_0_000)

Project: 70183463 **Date Issued:** 2018-08-13

Issued to: Mid-West Instrument A Division of Astra Associates, Inc
6500 Dobry Dr
Sterling Heights, Michigan 48314
USA
Attention: Michael Kasly

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: Dhuni Patel
Dhuni Patel

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: (Switches) Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G:

Model 120, where model designation may have suffixes as noted in Table 1; SPDT/SPST, pressure actuated (piston type), Maximum working pressure 3000 PSI (Aluminum "Al" body) or 5000 PSI (Stainless Steel "SS" body). Magnetically operated switches, with or without indicating gauge; switch rated as identified in Table 2.

Model 130, where model designation may have suffixes as noted in Table 1; SPDT, pressure actuated (diaphragm type), Maximum working pressure 500 PSI. Magnetically operated switches, with or without indicating gauge; switch rated as identified in Table 2.

Model 140/141, where model designation may have suffixes as noted in Table 1; SPST/SPDT, pressure actuated (diaphragm type), Maximum working pressure 1500 PSI (Brass) or 3000 PSI (Al or SS). Magnetically operated



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switches, with or without indicating gauge, switch rated as identified in Table 2. NACE option rated 1625 PSI maximum working pressure (AL or SS).

TABLE 1:

Models 120-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = J or K; Y = A, B, C, D, E, F, G or H;
Models 130-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = N or P; Y = A
Models 140/141-QQ-(QQQQ)-XY, where Q = not applicable; X = C or D; Y = A or B

TABLE 2:

Model 120/130/140/141, Electrical Specification option code A, Rating: 0.025A, 120Vac/Vdc or 0.1A, 30Vac/Vdc or 0.25A, 12Vac/Vdc
Model 120, Electrical Specification option code B, C, D, Rating: 0.20A, 240Vac/Vdc or 0.4A, 120Vac/Vdc or 0.5A, 30Vac/Vdc
Model 120, Electrical Specification option code E, F, G, Rating: 0.25A, 240Vac/Vdc, or 0.5A, 120Vac/Vdc, or 3.0A, 12Vac/Vdc
Model 120, Electrical Specification option code H, Rating: 0.25A, 240Vac/Vdc, or 0.5A, 120Vac/Vdc, or 1.0A, 24Vac/Vdc
Model 140/141, Electrical Specification option code B, Rating: 0.1A, 240Vac/Vdc, or 0.5A, 12Vac/Vdc, or 0.5A, 30Vac/Vdc

PART B: (Switches) Class I, Division 2, Groups A, B, C & D; Class II, Division 2, Groups F & G

Model 120, where model designation may have suffixes as noted in Table 3; SPDT/SPST, 1/2 NPT conduit entry, with or without indicating gauge; Maximum working pressure 3000 PSI (Al) or 5000 PSI (SS). Pressure actuated (piston type), magnetically operated switch; rated as identified in Table 2.

Model 121, where model designation may have suffixes as noted in Table 3; SPDT/SPST, 1/2 NPT conduit entry, with or without indicating gauge; Maximum working pressure 3000 PSI (Al) or 5000 PSI (SS). Pressure actuated (piston type), magnetically operated switch; rated as identified in Table 2.

Model 140/141, where model designation may have suffixes as noted in Table 3; SPST/SPDT with or without indicating gauge, Maximum working pressure, non-end connected 1500 PSI (Brass) or 3000 PSI (Al or SS). End connected maximum working pressure rated 2125 PSI (AL or SS). NACE option maximum working pressure rated 1625 PSI (AL or SS) for all connection options. Pressure actuated (diaphragm type) magnetically operated switch; rated as identified in Table 2.

Model 114/142, where model designation may have suffixes as noted in Table 3; SPST/SPDT with or without indicating gauge, Maximum working pressure, non-end connected 1375 PSI (Brass) or 1500 PSI (Al or SS). Maximum working pressure for end connected & NACE options rated 1375 PSI (Brass, AL, & SS). Pressure actuated (diaphragm type) magnetically operated switch; rated as identified in Table 2.

TABLE 3:

Model 120-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = E or F; Y = A, B, C, D, E, F, G or H
Model 121-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = E or F; Y = A, E, F, or G
Model 114/140/141/142-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = E, F, Y = A or B



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PART C: (Transmitters): Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups F & G

Model 121, where model number designation may have suffixes as noted in Table 4; 8-28 Vdc, Input, 4-20 mA, 2 wire transmitter output; 1/2 NPT conduit entry, with or without indicating gauge; Maximum working pressure 3000 PSI (Al) or 5000 PSI (SS).; Pressure actuated (piston type), magnetically operated transmitter.

Model 140/141, where model number designation may have suffixes as noted in Table 4; 8-28 Vdc, Input, 4-20 mA, 2 wire transmitter output; 1/2 NPT conduit entry, with or without indicating gauge; Maximum working pressure, non-end connected 1500 PSI (Brass) or 3000 PSI (Al or SS). End connected maximum working pressure rated 2125 PSI (AL or SS). NACE option maximum working pressure rated 1625 PSI (AL or SS) for all connection options. Pressure actuated (diaphragm type) magnetically operated transmitter.

Model 114/142, where model number designation may have suffixes as noted in Table 4; 8-28 Vdc, Input, 4-20 mA, 2 wire transmitter output; 1/2 NPT conduit entry, with or without indicating gauge; Maximum working pressure, non-end connected 1375 PSI (Brass) or 1500 PSI (Al or SS). Maximum working pressure for end connected & NACE options rated 1375 PSI (Brass, AL, & SS). Pressure actuated (diaphragm type) magnetically operated transmitter.

TABLE 4:

Model 121/114/140/141/142-QQ-QQ-(QQQQ)-XY, where Q = not applicable; X = W; Y = T

APPLICABLE REQUIREMENTS

- | | |
|---|---|
| CAN/CSA Standard C22.2 No. 14-13 | - Industrial Control Equipment |
| CAN/CSA Standard C22.2 No. 25-17 | - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations |
| CAN/CSA Standard C22.2 No. 30-M1986 | - Explosion-Proof Enclosures for Use in Class I Hazardous Locations |
| CAN/CSA Standard C22.2 No. 213-17 | - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations |
| Standard No. UL 508, 17 th Edition | - Industrial Control Equipment |
| Standard No. UL 1203, 5 th Edition | - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations |
| ANSI/ISA- 12.12.01 | - Nonincendive Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations |

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.



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- (1) Company name
- (2) Model number
- (3) Serial number
- (4) Electrical rating
- (5) Hazardous location designation
- (6) CSA Monogram with "C/US" indicator
- (7) Maximum working pressure (MWP)



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

Project	Date	Description
70183463	2018-08-13	Evaluation to update report 1057940 to add new models, initial review to update standards to latest editions, update (11) drawings for the latest revisions and added option for special diagonal mounting holes. This quotation assumes that no testing is required.
2549229	2012-12-20	Update to report 1057940 to include revised drawings, change wall thickness on enclosure, minor subassembly mounting changes, and to add alternate gasket
2293660	2010-06-04	Update report 1057940 to include revised drawings and to add alternate pipe sealant.
2151979	2009-05-21	Update Report 1057940 to include revised drawings.
1867497	2007-07-25	Update report 1057940 to include revisions to models 120, 140, 141, 142 pressure switches and add model 121 pressure switch for Class I, Division 2, Groups A, B,C, D, Class II, Div 2, Groups F, G.
1635894	2005-08-08	Update report 1057940, Add model 142 for Class I, Div 2, Groups ABCD ClassII, Groups FG