



Certificate of Compliance

Certificate: 2117477 (LR 67663)

Master Contract: 155493

Project: 2716293

Date Issued: July 9, 2014

Issued to: ABB Inc.

Analytical PRU
843 N Jefferson St,
Lewisburg, WV 24901
USA
Attention: Scott Kiddle

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.



Jack Chin

Issued by: Jack Chin

PRODUCTS

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -
Certified to US Standards

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Division 1, Groups B, C, D

PGC5000A Process Gas Chromatograph Master Controller with Type X pressurizing or Type Y pressurizing;
input rated: 120/240 Vac, 50/60 Hz, 120VA maximum; Operating ambient temperature range: 0°C to 50°C.
Temperature Code: T4

Class I, Division 2, Groups B, C, D

PGC5000A Process Gas Chromatograph Master Controller with Type Z pressurizing or without pressurizing;
input rated: 120/240 Vac, 50/60 Hz, 120VA maximum; operating ambient temperature range: 0°C to 50°C.
Temperature Code: T4



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Notes:

APPLICABLE REQUIREMENTS

- CSA Std C22.2 No. 0 -M91 (R 2006) - General Requirements – Canadian Electrical Code – Part II
- CSA Std C22.2 No. 142-M1987 (R2009) - Process Control Equipment
- CSA Std C22.2 No. 30-M1986 (R2012) - Explosion-Proof Enclosure for Use in Class I Hazardous Locations
- CSA Std C22.2 No. 157-92 (R2012) - Intrinsically Safe and Non-incendive Equipment for Use in Class I Hazardous Locations
- CSA Std C22.2 No.213-M1987 (R2013) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- NFPA 496-2008 - Purged and Pressurized Enclosures for Electrical Equipment
- ANSI/ISA 12.12.01 Ed. 1 (2007) - Nonincendive Electrical Equipment for Use in Class I and II, (Classified) Locations
- UL Std No. 1203, Ed 4 (2006) - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment Use in Class Hazardous (Classified) Locations
- UL Std No. 913, Ed 7 (2006) in Class - Intrinsically Safe Apparatus and Associated Apparatus for Use I, II, III, Division 1, Hazardous (Classified) Locations
- UL Std No. 916, Ed 3 (1998) - Energy Management Equipment

MARKINGS

- Manufacturers name, ABB, or CSA Master Contract number, “155493”, adjacent to the CSA Mark in lieu of manufacturers name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark with “C” and “US” indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated)
- When marked “Class I, Division 1, Groups B, C, D” the equipment may also be marked: “Class I, Zone 1, Group IIB+H2”
- When marked “Class I, Division 2, Groups B, C, D” the equipment may also be marked: “Class I, Zone 2, Group IIB+H2”



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- Temperature Code "T4"
- Pressurization Type, where specified in the PRODUCTS section, above
- When used with Type X pressurizing, the words: "WARNING: REMOVE POWER BELOW 0.5 MBAR (0.2 INCH OF WATER COLUMN)"
- The words: "WARNING: ENCLOSURE SHALL NOT BE OPENED UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS, OR UNLESS ALL DEVICES WITHIN THE ENCLOSURE HAVE BEEN DE-ENERGIZED. POWER MUST NOT BE RESTORED UNTIL AFTER THE ENCLOSURE HAS BEEN PURGED FOR 18.2 MINUTES AT A FLOW RATE OF 0.63 SCFM (17.84 L/min)"
- The words: "WARNING: THE SAFETY OF THIS EQUIPMENT RELIES ON THE PROVISION OF PROPER PURGING AND PRESSURISING WHEN USED IN HAZARDOUS LOCATIONS. IT MUST NOT BE PUT INTO USE WITHOUT "SPECIAL PERMISSION" WHEN USED IN HAZARDOUS LOCATIONS FROM THE INSPECTION AUTHORITY HAVING JURISDICTION."
- The words: "Install per installation instructions on Page 2 of document IM 0496-S"



Supplement to Certificate of Compliance

Certificate: 2117477

Master Contract: 155493

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
2716293	Jul 9, 2014	Update report 2117477 with alternate power supply and alternate PCB/LCD display/touch panel
2560235	Feb 15, 2013	Update of report 2117477 to include minor drawing revisions
2427310	Jun 21, 2011	Update of Report 2117477 to resolve FIR dated Jan 28, 10, by allowing alternate pressure regulators.
2234378	Jan 12, 2010	Update of Report 2117477 to add optional Type X and Type Z pressurizing.
2229582	Oct 16, 2009	Update of Report 2117477 to add Ethernet Modbus gateway MB3170I by Moxa Incorporated for Model PGC5000A.
2117477	Dec 22, 2008	Certification of PGC5000A as Class I, Groups B, C, and D, Div 1, Type Y Purge & Class I, Div 2, Groups B, C, D and IP54