



Certificate of Compliance

Certificate: 1891271

Master Contract: 155295

Project: 80144005

Date Issued: 2022-11-02

Issued To: ABB Inc.
3400 Rue Pierre-Ardouin
Quebec, Quebec, G1P 0B2
Canada

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: *Emile Kenou*
Emile Kenou



PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups B, C, D, Temperature Code T4

Remote on-line process "Series FTPA2000-200" FTIR spectrometer analyzers, Models: FTPA2000-260X, FTPA2000-260, FTPA2000-261 and FTPA2000-263, rated 120/240Vac, 60Hz, 600VA max, method of protection by intrinsically safe barriers, and purged and pressurized enclosure Type Z.

FTIR spectrometer analyzer model FTPA2000-HP260X integrates an industrial PC and touch screen.



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APPLICABLE REQUIREMENTS

CSA-C22.2 No. 14-13 - Industrial Control Equipment
CAN/CSA-C22.2 No. 142M87 (R2014) - Process Control Equipment
ANSI/UL Standard 508, 17th ed. 2013 - Industrial Control Equipment
NFPA 496-2017 - Purged and Pressurized Enclosures for Electrical Equipment

MARKINGS

1. The following markings appear in a permanent and visible manner on each product, on CSA Accepted label(s):
 - The CSA Monogram with indicators “c” and “us”;
 - The Submitter’s name or identification (CSA registered tradename or legacy file no. “**LR 68526**” or master contract no. “**155295**”) adjacent to the CSA Monogram
 - The model designation;
 - The date of manufacture (at least month and year) or traceable serial number;
 - The electrical ratings;
 - The hazardous locations area classification: “Class I Division 2 Groups B, C, D Temp Code T4”;
 - The pressurization method of protection: “Type Z”.

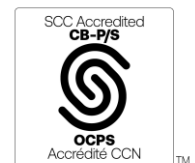
2. Warning labels: The following markings and cautions appear in a permanent manner.
 - “WARNING: MORE THAN ONE LIVE CIRCUIT. SEE DIAGRAM”, and AVERTISSEMENT: CET ÉQUIPEMENT RENFERME PLUSIEURS CIRCUITS SOUS TENSION. VOIR LE SCHÉMA”; the label is affixed in a conspicuous location on the outside of the enclosure door.
 - “CAUTION: INTRINSICALLY SAFE AND NON-INTRINSICALLY SAFE WIRING MUST NOT BE RUN IN THE SAME WIREWAY” and “ATTENTION : LES Câbles à Sécurité Intrinsèque et Non Intrinsèque Installés à Pied d’œuvre ne doivent pas être acheminés dans la même canalisation”; the prominent cautionary label is affixed in or adjacent to the section where the intrinsically-safe barrier assemblies are installed.

3. The following additional permanent markings, or equivalent statements, appear on the protected enclosure in a prominent location, visible before the protected enclosure can be opened:
 - The start-up conditions that: “Protected equipment shall not be energized until seven enclosure volumes of protective gas have passed through the enclosure while maintaining an internal pressure of at least 25 Pa (0.1 in of water)”, or “Protected equipment shall be permitted to be energized immediately where a pressure of at least 25Pa (0.1 in of water) exists, and the atmosphere within the enclosure is known to be below the ignitable concentration of the

- combustible material”; these conditions may appear on an adjacent pressurizing system if referenced on the protected enclosure;
- **“WARNING - PRESSURIZED ENCLOSURE - This enclosure must not be opened unless the area atmosphere is known to be below the ignitable concentration of combustible materials or unless all devices within have been de-energized”;**
 - **“WARNING - Power must not be restored after enclosure has been opened until enclosure has been purged for _____ minutes at a flow rate of _____”,** minimum pressure may be used instead of flow rate;
 - **“WARNING - HIGH TEMPERATURE INTERNAL PARTS - This enclosure must not be opened unless the area atmosphere is known to be below the ignitable concentration of combustible materials or unless all equipment within has been de-energized for _____ minutes”**

Notes:

Products certified under Class C225802, C225882 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). 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

Project	Date	Description
80144005	2022-11-02	Addition of alternate Input breakers (item 6.) models: SU202M-K5, SU202M-K10
70106469	2016-12-20	CSA c/us report update (1891271) for the addition of an alternate power supply, model: CP-C.1.
70039764	2015-10-02	CSA c/us report update for the addition of an alternate power supplies models: CP-C 24VDC/10A and S8VK-G06012, addition of PLC model: PM564-R-ETH, update to applicable standards to reflect product class requirements and correction of model name (FTPA2000-260X to F TPA2000-HP260X). Due to the nature of the changes, no testing was deemed necessary
2504004	2012-06-18	Addition of a new model FTPA2000-HP260X spectrometer analyzer with touch screen.
1891271	2007-08-13	Original "cCSAus" Certification. Remote on-line FTIR spectrometer analysers, Models: FTPA2000-260, FTPA2000-261, FTPA2000-263, CI I Div 2 Gr BCD T4.