



# Certificate of Compliance

**Certificate:** 1921584

**Master Contract:** 204015

**Project:** 80090133

**Date Issued:** 2021-09-21

**Issued To:** ABB Automation GmbH  
Stierstädter Strasse 5  
Frankfurt am Main, Hesse, 60488  
Germany

**Attention:** Horst Straka

*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:** *David Steinfeld*  
David Steinfeld



## **PRODUCTS**

CLASS - C872105 - ELECTRICAL LABORATORY EQUIPMENT

CLASS - C872185 - ELECTRICAL LABORATORY EQUIPMENT - Certified to US Standards

CLASS - C872135 - LABORATORY ELECTRICAL EQUIPMENT Components - Component Acceptance

CLASS - C872195 - ELECTRICAL EQUIPMENT FOR LABORATORY USE Components - Component Acceptance - Certified to US Stds

## **PART A**

CLASS 8721 05 - LABORATORY ELECTRICAL EQUIPMENT

CLASS 8721 85 - ELECTRICAL EQUIPMENT FOR LABORATORY USE (Certified to U.S. Standards)



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**Analyzer System for Emission, Process Measurements and Cement applications**, Model: AO2000 System, permanently connected, Mains Rated: 120/208Vac, 3 phases, 60Hz, max 35A/phase and UPS input rated: 120Vac, 60Hz, 20A.

Note: The above model is Equipment Class 1, Pollution Degree 2 and Measurement Category 2.

## **PART B**

CLASS 8721 35 - LABORATORY ELECTRICAL EQUIPMENT - Components - Component Acceptance  
CLASS 8721 95 - ELECTRICAL EQUIPMENT FOR LABORATORY USE (Certified to U.S. Standards) -  
Components - Component Acceptance - Certified to US Std

**Component-type\* Analyzer System for Emission, Process Measurements and Cement applications**, Model: AO2000 System, permanently connected, Mains Rated: 120/208Vac, 3 phases, 60Hz, max 35A/phase and UPS input rated: 120Vac, 60Hz, 20A

Note: The above model is Equipment Class 1, Pollution Degree 2 and Measurement Category 2.

\*: Components are certified for use in other equipment where the acceptability of the combination is determined by CSA Group. A suitable Fire, Mechanical and Electrical enclosure must be provided in the end product.

## **APPLICABLE REQUIREMENTS**

- |                                  |  |
|----------------------------------|--|
| CAN/CSA-C22.2 No. 61010-1-04     | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements  |
| CAN/CSA-C22.2 No. 61010-2-010-04 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials |
| UL 61010-1 (Second Edition)      | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements   |



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**CONDITIONS OF ACCEPTABILITY:**

- (1) This equipment has not been evaluated for use in corrosive atmosphere and other hazardous locations.
- (2) This equipment is for indoor use only.
- (3) The system is intended for field installation in accordance with the Canadian Electrical Code (CEC), the National Electrical code (NEC) and the manufacturer's instruction.
- (4) Marking shall appear as described below (Markings section).
- (5) Bonding conductors must be Green/yellow or Green and shall not be used for any other purposes.
- (6) The current certification is based on the fact that there are no laser parts within this unit.
- (7) Unit has not been evaluated for any rating outside the range specified in this report.
- (8) Current evaluation covers electrical features only. CSA did not perform any investigation on the effect of gases measurements and performances of the unit. Safety handling of the liquids used within the unit is not part of investigation. A suitable Fire and Mechanical enclosure must be provided for these liquids containers. Safety handlings precautions are provided in the user manual.
- (9) The AO2000 System multicomponent Analyser System for Emission and Process Monitoring is available in various combinations as either a final product or a component type. Final products includes: Cabinet version with integrated electrical distribution and external optional cooling unit, Cabinet version with external electrical distribution box and external optional cooling unit and the Mounting Plate/Electrical distribution box which is certified as a component to be re-evaluated in final product (see condition 11)
- (10) The mounting plate/electrical distribution cabinet component type analyzer must be used in other equipment where the acceptability of the combination is determined by CSA International. A suitable Fire, Mechanical and Electrical enclosure must be provided in the end product. No investigation was performed on this configuration.
- (11) Ismet transformer was tested and accepted as part of this report. The transformer is provided with non-certified fuses at the input but the primary protection for this transformer is provided by breaker F02.



## *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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<b>Project</b>	<b>Date</b>	<b>Description</b>
80090133	2021-09-21	Update of cCSAus Certificate 1921584 Rev. 70141898 of Analyzer System for Emission, Process Measurements and Cement applications, Model: ACX to add new fan, speed controller and change equipment name to AO2000 System according to 61010-1 2nd Edition without additional testing. Changes are considered as minor change.
000070141898	2017-09-14	Update of cCSAus Certification 1921584 of Analyzer System for Emission, Process Measurements and Cement applications, Model ACX to integrate changes in the component list.
000070011250	2014-10-15	Update to certificate 1921584 for additional display and electronic Syscon III Board.
0001921584	2008-05-13	Original Certification of Analyzer System for Emission, Process Measurements and Cement applications under acceptance of CB report from LCIE. CB certificate no.: FR 70267, Report reference no.: 06KFS118 -model: ACX (2 configurations available: final product and component type).