



# Certificate of Compliance

**Certificate:** 70001765

**Master Contract:** 204015

**Project:** 70001765

**Date Issued:** May 15, 2015

**Issued to:** ABB Automation GmbH  
Stierstädter Str. 5  
D-60488 Frankfurt-Praunheimm  
GERMANY  
**Attention:** Mr. Thomas Bauer

*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: Sebastian Schneider  
*Sebastian Schneider*

## **PRODUCTS**

CLASS 8721 06 - LABORATORY ELECTRICAL EQUIPMENT

CLASS 8721 86 - ELECTRICAL EQUIPMENT FOR LABORATORY USE (Certified to U.S. Standards)

**Multi-component FTIR emission monitoring system ACF5000 Series**, Model ACF5000 Id No.: 23920-**ABCDEFGHIJKL** followed by **M, N, O, P**; permanently connected, rated AC 230/400 V (3 Phase), 50...60 Hz, 9 kVA or AC 120/208 V (3 Phase), 50...60 Hz, 7 kVA, pollution degree 2, installation category II.



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**Declaration of type designation code** for model ACF5000 Id No.:  
23920-ABCDEFGHIJKL followed by M, N, O, P :

<b>CODE</b>	<b>Configuration covered</b>
<b>A</b>	1,2, not safety relevant (FTIR)
<b>B</b>	0,1, not safety relevant (ZrO2 sensor)
<b>C</b>	0 = without, 1 = with FID
<b>D</b>	0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,G not safety relevant (Analog outputs)
<b>E</b>	0 = single sampling, 1,2, not part this certification
<b>F</b>	0,1 (Remote)
<b>G</b>	0 = without, (Probe Tube) 1 = prepared for probe tube 42, incl. temp. controller, A = probe tube 40, B = probe tube 42, incl. temp. controller
<b>H</b>	0 = without but with temp. Controller, 1 = without, but with temp. Controller, prepared for 2stage blow back, A = Filter unit PFE2, heating sleeve, basic protection box, B = Filter unit PFE2, heating sleeve, standard protection box, C = Filter unit PFE2, heating sleeve, standard protection box, 2stage blow back
<b>I</b>	5 = prepared for heated sample line, temp. controlled up to 60m (230/400V), 6 = prepared for heated sample line, temp. controlled up to 40m (120/208V), A = heated sample line, TBL01-R, up to 60m, (230/400V), B = heated sample line, TBL01-R, up to 40m, (120/208V), C = heated sample line, TBL01-S, up to 60m, (230/400V), D = heated sample line, TBL01-S, up to 40m, (120/208V)
<b>J</b>	1 = 230/400 V, 50/60 Hz, 2 = 120/208 V, 50/60 Hz, 3 = 100/200 V, 50/60 Hz
<b>K</b>	1 = sheet steel cabinet with fan 2 = sheet steel cabinet with cooling unit
<b>L</b>	0 not considered as safety relevant (Measuring)
<b>M</b>	1 = CE certificate, 2 = CSA certificate (GP), 3 = GOST certificate
<b>N</b>	0 = without, 1 = prepared for UPS
<b>O</b>	1 = automatic fuses unipolar, 2 = automatic fuses bipolar
<b>P</b>	1 = metric cable glands, 2 = prepared for conduits



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### **APPLICABLE REQUIREMENTS**

- |   |   |  |
|---|---|--|
| CAN/CSA-C22.2 No. 61010-1-12                  | - | Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements  |
| UL Std. No. 61010-1 (3 <sup>rd</sup> Edition) | - | Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements |

### **CONDITIONS OF ACCEPTABILITY**

- (1) The equipment shall be installed with a non-detachable cord, which is acceptable to the authorities in the country where the equipment is to be used.
- (2) Equipment is only to be installed by manufacturer trained personnel in accordance to the installation manual.
- (3) Any investigation on the effect of gases measurements and performances of the unit has to be evaluated at initial startup as well as safety handling of the liquids / gases used within the unit.
- (4) A suitable fire and mechanical enclosure must be provided for these liquid containers. Precautions are provided in the installation manual.
- (5) If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.



## *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>
70001765	May 15, 2015	Original cCSAus Certification of Multi-component FTIR emission monitoring system ACF5000 Series