



Certificate of Compliance

Certificate: 70012655

Master Contract: 204015

Project: 70046858

Date Issued: 2017-02-25

Issued to: ABB Automation GmbH
Stierstaedter Strasse 5
Frankfurt am Main, 60488
GERMANY
Attention: Eginhard Mueller

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 - C872106 - LABORATORY EQUIPMENT-Electrical

CLASS - C872186 - ELECTRICAL EQUIPMENT FOR LABORATORY USE-Certified to US Standards

Advance Optima / EasyLine Continuous Gas Analyzers

Type AO2000 Series

Models **AO2020**

ID No.: 24041-21**ABCDE0000F**,

AO2040

ID No.: 24041-22**ABCDE0000F** or 24041-26**ABCDE0000F**;

cord connected, rated AC 100-240 V; 50...60 Hz, 187 VA, Pollution Degree 2, Installation Category II.

A may be 0,1,2,3,4,5,6,7,8 numbers of measuring components included in system

B may be 0,1,2,3,4,5,6 not relevant for this certification

C may be 0 = not marked, 1 = IP20, 2=IP54, 4=IP40

D may be 0 = without, 1 = with Power supply connection, 2 = with Power supply and DC 24V

connection, 3 = with external DC 24V connection; connection for energy supply [mains or DC 24V]

E may be 0 = without, 1 = with housing purge 2 = with special housing purge

F may be 0,1,2,3,4,5,6,7 numbers of enclosures in the system



Certificate: 70012655
Project: 70046858

Master Contract: 204015
Date Issued: 2017-02-25

Advance Optima / EasyLine Continuous Gas Analyzers (Continued)

Type **AO2000-OEM Series:**

Limas23 EGA; ID No.: 24941-33ABCDE10001
rated DC 24 V; 135 W;

Fidas24 EGA; ID No.: 24841-33ABCDE50001

rated DC 24 V, max.40 W, AC 115/230 V; 325 VA; 50...60 Hz, Pollution Degree 2, Installation Category II.

A may be 0,1,2,3,4,5,6 numbers of measuring components included in system

B may be 0 not relevant for this certification

C may be 0 = without, 1 = IP20, 4=IP40

D may be 0 = without, 1 = with Power supply connection, 3 = with external DC 24V connection; connection for energy supply [mains or DC 24V]

E may be 0 = without, 1 = with housing purge

Type **EL3000 Series:**

Models **EL3020** ID No.: 24042-11ABCDE0000F,

EL3040 ID No.: 24042-12ABCDE0000F,

EL3060 ID No.: 24042-15ABCDE0000F

cord connected, rated AC 100-240 V; 50...60 Hz, 187 VA, Pollution Degree 2, Installation Category II.

EL3010-IPA/IPA2 ID No.: 24043-64ABCDE0000F,
cord connected, rated AC 100...240 V; 50...60 Hz, 100 VA, Pollution Degree 2, Installation Category II.

EL3010-C ID No.: 24043-73ABCDE0000F

EL3010-C (Fidas24)

cord connected, rated DC 24 V, MAX.40 W, AC 115/230 V; 325 VA; 50...60 Hz, Pollution Degree 2, Installation Category II.

EL3010-C (Uras26)

DC 24 V, max.95 W.

EL3010-C (Magnos206)

DC 24 V, max. 50 W.

EL3010-C (Limas23)

DC 24 V, max.115 W.

EL3060-Uras26

DC 24 V, max.95 W.

A may be 0,1,2,3,4,5,6 numbers of measuring components included in system

B may be 0,1,2,3,4 not relevant for this certification

C may be 0 = not marked, 1 = IP20, 2=IP54,3 = IP65, 4=IP40

D may be 0 = without, 1 = with Power supply connection, 3 = with external DC 24V connection; for energy supply [mains or DC 24V]

E may be 0 = without, 1 = with housing purge

F may be 1 numbers of enclosures in the system



Certificate: 70012655

Project: 70046858

Master Contract: 204015

Date Issued: 2017-02-25

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 61010-1 (Third Edition) - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

CONDITIONS OF ACCEPTABILITY

- (1) Equipment is only to be installed by trained persons familiar with the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.
- (2) 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.
- (3) All products which has to be supplied externally (non mains supplied) are required to be supplied by certified power supply only providing reinforced or double insulation for protection against electric shock with output voltages below the limits of 6.3.1 of 61010-1 or 30 Vr.m.s. and 42.4 Vpeak or 60 Vd.c..
- (4) Conditions of Acceptability of certified modules has to be considered separately.
- (5) If the equipment is used in potentially explosive atmospheres, evaluation of EX-protection has to be conducted additionally.
- (6) Performance characteristics are not part of this evaluation.
- (7) 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

Certificate: 70012655

Master Contract: 204015

*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
70046858	2017-02-25	Update of cCSAus certification 70012655 of AO2000 to integrate new EL3000 Series, AO2000-OEM Series and measuring modules Caldos25, Caldos27, Magnos206, Magnos27, Magnos28, Zo23, Fidas24, Uras26 to 61010 3rd Edition.
70012655	2015-10-07	cCSAus certification of AO2000 Series with measuring module LIMAS21 to 61010 3rd Edition.