



Certificate of Compliance

Certificate: 1105720

Master Contract: 204015

Project: 70125370

Date Issued: May 14, 2018

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

Attention: Matthias Guth

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: 
 Herbert Peters

PRODUCTS

CLASS C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

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

Equipment	Product code	Ratings / Marking	Ambient Temp.
Advance Optima / AO2000 Series" Continuous Gas Analyzers	P/N 24041-x	Class I, Div. 2, Groups A, B, C and D T4 100-240 Vac / 50-60Hz / 2.2A (single voltage range power supply installed),	See analyzer
Consisting of the following components:			
Housing	P/N 24341-x		See analyzer
Electronic Module	P/N 24441-x	(relay contacts rated 30 V, 1A)	See analyzer
Pneumatic Module	P/N 24141-x		See analyzer
Power supply	3KXG758003U0400 3KXG758003U0300 758118	Type PSU-0261-12X Type PSU-0261-13X Rated 100 V to 240 Vac 50/60 Hz 4 A Type MZP-Z159 Rated 100 V to 240 Vac 50/60 Hz, 4 A	See analyzer
HMI / Display unit	3KXG758009U0200	Rated Input HMI: DC 5V, 225 mA, Input Display unit:	See analyzer



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		Logic: DC 3,3V 50mA Backlight LED: DC 12V, 50 mA	
Uras26 Module	P/N 24541-x	rated 24 Vdc, 75W	+5 °C to +45 °C.
Magnos27 Module	P/N 24642-x	rated 24 Vdc, 35W	+5 °C to +45 °C.
Magnos28 Module	P/N 24644-x	rated 24 Vdc, 55W	+5 °C to +50 °C.
Magnos206 Module	P/N 24641-x	rated 24 Vdc, 55W	+5 °C to +50 °C.
Caldos25 Module	P/N 24741-x	rated 24 Vdc, 35W	+5 °C to +45 °C.
Caldos27 Module	P/N 24742-x	rated 24 Vdc, 35W	+5 °C to +50 °C.
Limas21 UV Module	P/N 24931-x	rated 24 Vdc; max. 100 W	+5 °C to +45 °C
Limas21 HW Module	P/N 24931-x	rated 24 Vdc; max. 100 W	+15 °C to +35 °C
Limas11 UV Module	P/N 24911-0-x	rated 24 Vdc, 80W	+5 °C to +45 °C.
Limas11 IR Module	P/N 24921-0-x	rated 24 Vdc, 80W	+5 °C to +45 °C.
Limas11 HW Module	P/N 24911-0-x	rated 24 Vdc, 100W	+5 °C to +35 °C.
LS25 Laser Stack Analyzer	P/N 24210-0-x	rated 18-36 Vdc, 20W	-20 °C to +55 °C.
LS25 Remote Power Supply Unit	P/N 24210-0-x	(Non-Hazardous Locations only, rated 100-240Vac, 50/60Hz, 0.36 - 0.26A)	-20 °C to +55 °C.
Separate products			
SCC-C Cooler	P/N 23070-x	Class I, Div. 2, Groups A, B, C and D T4 input rated 120/240 Vac, 50/60 Hz, 200 VA; Relay contact rated 250Vac / 2A	+5 °C to +50 °C
SCC-F Sample Conditioning Unit (Non-CAN Bus Version)	P/N 23212-x	Class I, Div. 2, Groups A, B, C and D T4 input rated 120/240 Vac, 50/60 Hz, 185VA; Relay contacts rated 250Vac / 2A	+5 °C to +50 °C
SCC-F Sample Conditioning Unit (CAN Bus Version)	P/N 23212-x	Class I, Div. 2, Groups A, B, C and D T4 input rated 120/240 Vac, 50/60 Hz, 185 VA; Relay contacts rated 30V/1A (General Purpose) and B300 Pilot Duty (360VA max at 240Vac)	+5 °C to +50 °C

Notes:

1. "x" in the P/N's may be a 12 digit number representing specific features and options such as wall mount or rack mount versions.
2. The AO2000 Analyzer Series consists of the AO2020 rack mount version and the AO2040 wall mount version.
3. Rack mount versions and wall mount versions not equipped with conduit entries must be installed in a suitable enclosure, cabinet or rack with provision for connection of Division 2 wiring methods, acceptable to the local inspection authority having jurisdiction.
4. I/O connectors must only be connected to Class 2 circuits.



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M91 (R2001)	-	General Requirements - Canadian Electrical Code, Part II
CSA Std. C22.2 No. 142-M1987	-	Process Control Equipment
CSA Std. C22.2 No. 213-M1987	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL Std. No. 916-2007	-	Energy Management Equipment
ANSI/ISA-12.12.01-2010	-	Non incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

1. Submitter's identification (company name and/or file number and/or registered tradename);
2. Factory identifier; [if required]
3. Model designation;
4. Serial Number
5. Date Code or Month and Year of Manufacture(can be included in the serial number)
6. Electrical rating;
7. Class I, Div. 2, Groups A, B, C and D T4
8. The CSA Monogram with C/US subscript;
9. Range of the ambient temperature
10. Warnings in English and French