Certificate of Compliance

Certificate:	80219586	**Master Contract:**	205557
Project:	80219586	**Date Issued:**	2024-12-19

Issued to: **Endress+Hauser Conducta GmbH & Co. KG**
Dieselstraße 24
Gerlingen, Baden-Württemberg 70839
Germany

Attention: Marco Rottmann

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:

John Kusi Amoateng
John Kusi Amoateng

PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 84 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C, D
Class I Zone 0 AEx ia IIC T3/T4/T6 Ga

Conductive conductivity sensor, Model CLS16B- aabbccdefff+g.
Rated Input: 15V dc, 30mA, 130mW max.
The entity parameters for CLS16B are: $U_i \leq 15$Vdc, $I_i \leq 30$ mA, $P_i \leq 130$ mW, $C_i \leq 1$nF/m, $I_i \leq 6$ µH/m. IP 68. MWP 1200 kPa.
Intrinsically safe with entity parameters when installed per Control drawing in XA03346C.

Temperature rating:

Ambient Temperature	Process Temperature range	T-code
-20 °C ≤ Ta ≤ + 60 °C	-5°C ≤ Tp ≤ 65°C	T6

	-5°C ≤ Tp ≤ 115°C	T4
	-5°C ≤ Tp ≤ 150°C	T3

Nomenclature:

Condumax	xLS16B-aabbccdefff+g	
	x	Manufacturer (no ex-relevance) x = C -> E+H-labeled version (no Ex relevance) x = O -> OEM/label partner-labeled version (no Ex relevance) x = OC -> OEM/label partner-labeled version (no Ex relevance)
	aa	Order option ex-certification
	bb	Process connection (no ex-relevance)
	cc	Material (no ex-relevance)
	d	Cable connection (no ex-relevance)
	e	Temperature sensor A = Pt100 B = Pt1000
	fff	only if x = O, OC = three characters determining OEM/label partner (no ex-relevance)
	g	Optional = one or more characters determining optional features (no ex-relevance) e.g. test or other certificates/ declarations

Class I, Division 1, Groups A, B, C, D
Ex ia IIC T3/T4/T6 Ga

Conductive conductivity sensor, Model CLS16B- aabbccdefff+g.
Rated Input: 15V dc, 30mA, 130mW max.
The entity parameters for CLS16B are: $U_i \leq 15$Vdc, $I_i \leq 30$ mA, $P_i \leq 130$ mW, $C_i \leq 1$nF/m, $I_i \leq 6$ µH/m. IP 68. MWP 1200 kPa.
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APPLICABLE REQUIREMENTS

CSA C22.2 No. 61010-1-12,UPD1:2015, UPD2:2016, AMD1:2018, UPD3:2023 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements - Third Edition; Update No. 1: July 2015; Update No. 2: April 2016; Update No. 3: June 2023

CSA C22.2 No. 60079-0:19 - Explosive atmospheres — Part 0: Equipment -General requirements

CAN/CSA C22.2 No. 60079-11:14 - Second Edition - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

UL 61010-1 3rd ed (Rev. Jun 6, 2023) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements

ANSI/UL 60079-0-2020 Seventh Edition - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

ANSI/UL 60079-11:2013 - Sixth Edition - Including revisions through January 25, 2023 - UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"

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.

The following markings are directly lasered onto the products on the outer electrode (topside of the sensor) or alternatively printed on a label.

- Manufacturer's name: " Endress + Hauser Conducta GmbH Co.& KG ", or CSA Master Contract Number "205557", adjacent to the CSA Mark in lieu of manufacturer's name.
- CSA Monogram;
- Model Designation, as specified in the PRODUCTS section, above.

- Ambient temperature range, as specified in the PRODUCTS section, above…
- Serial Number, Date Code or Month and Year of Manufacture.
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, and the word “Groups” may be abbreviated “GRP” or “GP”.
- Method of Protection markings (Ex -- markings): As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- The words “INTRINSICALLY SAFE” or “IS” or “I.S.” or the symbol “Ex ia” for intrinsically safe models.
- CSA Certificate number: “CSA24CA80219586”.
- Install per head transmitter’s control drawing in XA03346C.

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Project: 80219586 **Date Issued**: 2024-12-19

Notes:

Products certified under Class(es) C225804, C225884 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

Certificate: 80219586 **Master Contract:** 205557

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
80219586	2024-12-19	Original cCSAus certification of intrinsically safe Sensor Type CLS16B Series based on data acceptance of TUV 15ATEX7778X.