



Certificate of Compliance

Certificate:	80046403	Master Contract:	215069
Project:	80256226	Date Issued:	2025-06-02
Issued to:	Endress+Hauser SICK GmbH+Co. KG Bergener Ring 27 Ottendorf-Okrilla, Saxony 01458 Germany	Issued by:	<i>Rupesh Kale</i> Rupesh Kale
	Attention: Sven-Matthias Scheibe		

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.



PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Ex db ia IIC T4 Gb

Ex db eb ia IIC T4 Gb

Class I, Division 2, Groups A, B, C and D T4

Ex ec ia IIC T4 Gc

Process data acquisition and processing unit, Model Interface Unit



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Model(s)	Current (A ac)	Voltage (VAC)	Voltage (VDC)	Current (A dc max)	Voltage Range (VDC)	Enclosure IP/Type Rating
Faa-bccdefghijklmnopqrsssss	0.33	115-230, 50/60 Hz	12-24	1	9-32 VDC, 18 mA (Foundation Fieldbus (Optional))	Type 4X/IP65

The model code designations for aa-bccdefghijklmnopqrsssss are as outlined below.

aa = special using

b = Ex approval

cc = Ex classification

d = Material Electronic housing

e = Painting housing

f = cable entries

g = Display

h = Variants of Terminal block

i = Tropicalization

j = Ambient temperature range

k = Power supply

l = Mainboard

m = Analog Module Type 1

n = Analog Module Type 2

o = Digital Module Type 1

p = Interface Module

q = Extension Module 1

r = Extension Module 2

sssss= Type key extention (Not-safety related - in maximum 5 alphanumeric characters or Blank)

Notes:

- i. The ambient temperature range -40°C to 60°C or -40°C to 65°C. It depends on the various modules used in interface units and the manufacturer shall therefore assemble their products in accordance with the details below.
 - a. The modules must be inserted starting from the left or slot 1 and filling up accordingly to the right.
 - b. If a Foundation Fieldbus module is installed, it is plugged into the rightmost slot. The adjacent left slot of a Foundation Fieldbus module must be kept free.
 - c. According to the following ranking levels, different module types are installed together, therefore the modules with the highest ranking level are inserted first and then according to the ranking level.

Ranking Level	Module
1	Analog Module Type 1
2	Analog Module Type 2
3	Digital Module Type 1
4	Foundation Fieldbus

d. For 60°C variant: The sum of the plugged modules "Analog Type 1" plus "Analog Type 2" plus "Digital Type 1" must not exceed 4.

e. For 65°C variant: The devices variant with an ambient temperature range of up to 65°C are limited to a sum of 3 I/O-modules with only one Analog Type 1 or Analog Type 2 module at a time.



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Module	Maximum number of modules allowed for temperature range -	
	-40°C to +60°C	-40°C to +65°C
Analog Module Type 1	3	1
Analog Module Type 2	2	1
Digital Module Type 1	3	1
Foundation Fieldbus	1	1

- ii. The above model is permanently connected, Equipment Class I, Pollution Degree 2, Overvoltage Category II.
- iii. Mode of operation: Continuous
- iv. Environmental Conditions: Normal: -40°C to 60°C ambient (-40°C to 65°C ambient with limited I/O), 2000 m max, 95% rH.

Conditions of Acceptability:

- i. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- ii. For “Ex ec ia” models: Opening the unit is only permitted if it is disconnected from the power supply.
- iii. For “Ex db ia” and “Ex db eb ia” models: Opening the unit is only permitted if an explosive atmosphere can be excluded.
- iv. For “Ex ec” All cable entries shall be plugged by cable glands or plugs certified for minimum Ex ec IIC with ambient temperature range of -40°C to 65°C (or -40°C to 60°C for 60°C variant).
- v. For “Ex db” and “Ex db eb” All cable entries shall be plugged by cable glands or plugs certified for minimum Ex db IIC and/or Ex eb IIC with ambient temperature range of -40°C to 65°C (or -40°C to 60°C for 60°C variant).

Class I, Division 1, Groups B, C and D T4

Class I, Zone 1, AEx db ia IIC T4 Gb

Class I, Zone 1, AEx db eb ia IIC T4 Gb

Class I, Division 2, Groups A, B, C and D T4

Class I Zone 2, AEx ec ia IIC T4 Gc

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 - b. If a Foundation Fieldbus module is installed, it is plugged into the rightmost slot. The adjacent left slot of a Foundation Fieldbus module must be kept free.
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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

CSA C22.2 No. 213-17 -Third Edition - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified Locations)

CSA C22.2 No. 94.2:15 - Second Edition - Enclosures for electrical equipment, environmental considerations

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

CSA C22.2 No. 60079-1:16 - Third Edition - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

CSA C22.2 No. 60079-7:16 - Second Edition - Explosive atmospheres — Part 7: Equipment protection by increased safety “e”

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

ANSI/UL 61010-1 3rd Edition (2012), AMD1:2018 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

UL 50E:2015 - Second Edition - UL Standard for Safety Enclosures for Electrical Equipment, Environmental Considerations

ANSI/UL 1203 - Fifth Edition - UL Standard for Safety Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Location

ANSI/UL 121201:2017 - Ninth Edition - UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

ANSI/UL 60079-0-2019 - Standard for Safety for Explosive Atmospheres - Part 0: General Requirements

UL 60079-1:2015 - Seventh Edition - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'



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ANSI/UL 60079-7-2017 Fifth Edition - Explosive Atmospheres - Part 7: Equipment Protection by Increased Safety 'e'

ANSI/UL 60079-11 (Sixth Edition) - UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"



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Notes:

Products certified under Class(es) C225802, C225882 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

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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

Project	Date	Description
80256226	2025-06-02	Update to cCSAus Report 80046403, Ed. 4 (Last project 80158446) to change the applicant/manufacture name from SICK Engineering GmbH to Endress+Hauser SICK GmbH+Co. KG.
80158446	2023-03-30	Update of CSA Report 80046403 to correct the typo on revision number 15 of drawing E224156.
80099685	2021-10-13	Update of CSA report 80046403 to correct CSA errors.
80085852	2021-08-23	Update of CSA report 80046403 to include Interface Unit for cCSAus rated Class I, Division 1, Groups B, C, and D T4, and Ex db ia IIC T4 Gb, Ex db eb ia IIC T4 Gb and Class I Zone 1 AEx db ia IIC T4 Gb, Class I Zone 1 AEx db eb ia IIC T4 Gb.
80046403	2020-08-25	Original Certification of INTERFACE UNIT or the following marking: Ex ec ia IIC T4 Gc Class I, Zone 2, AEx ec ia IIC T4 Gc Class I Div. 2, Groups A, B, C, D T4