1 # EU-TYPE EXAMINATION CERTIFICATE

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **CSANe 24ATEX1142X** Issue: **1**

4 Equipment: **Display Device, Model CID100**

5 Manufacturer: **Endress+Hauser SICK GmbH+Co. KG**

6 Address: Bergener Ring 27
Ottendorf-Okrilla Saxony 01458
Germany

7 This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):

II 1 G
Ex ia IIC T4 Ga

Signed:

Michelle Halliwell
Title: Senior Director of Operations
Date: 12 September 2025

13 # SCHEDULE

14 **EU-Type Examination Certificate Number:** **CSANe 24ATEX1142X** Issue: **0**

15 **Description:**

The CID100 is a display device which provides data (live measurement values, parameters etc.) via an LCD. It consists of an electroplated aluminium housing with a glass front protected display, secured by screws, with encapsulated electronics. The display includes a capacitance coupled user-interface push buttons on the front and a 4-pole, mechanically coded M12 connector on the back side.

Ambient Temperature Range: -40 °C to +70 °C

Entity Parameters

Apparatus is for connection to intrinsically safe circuit at the M12 backside connector, in type of protection Ex ia IIC, maximum values:

Ui = 10 V
Ii = 140 mA
Pi =1.1 W
Ci = 200 nF
Li = 3 µH
Lo = 416 µH for IIA; 208 µH for IIB; 52 µH for IIC

Variation 1 - This variation introduced the following changes:

i. To change the applicant/manufacturer name from SICK Engineering GmbH to Endress+Hauser SICK GmbH+Co. KG
ii. Addition of a new version of PCB

16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	30 January 2025	R80184460A	The release of the prime certificate.
1	12 September 2025	R80249348A	The introduction of Variation 1.

17 **Specific conditions of use (denoted by "X" after the certificate number):**

17.1 Apparatus is designated for use in ambient temperature range from -40 °C to +70 °C.

17.2 Ambient temperature of the place where CID100 is installed shall take into account heating from host equipment on which it is installed and shall not exceed the allowed range.

17.3 Apparatus is allowed to be used in gas group IIA or IIB or IIC depending on the entity parameters in the intrinsically safe circuit connected to M12 plug.

17.4 The maximum inductance in the circuit connected to CID100 shall not exceed Lo values as defined in the entity parameter set for the specific gas group. These limits are valid only for non-combined LC circuits. Combined LC circuit may require a lower inductance limit.

17.5 The resistance of CID100 enclosure to earth shall not exceed 1 GΩ measured at (500 +/-25) Vdc, when installed onto the host device.

17.6 Enclosure of the apparatus contains aluminium. Precautions shall be taken to avoid ignition hazard by impact or friction.

18 **Essential health and safety requirements of Annex II** (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

None.

Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
E385849	1 to 63	10	21 Jan 25	Technical Description CID100 - Explosion Protection Certification
9384436	1 of 1	--	21 Jan 25	Display-Modul FL900 Cert (overall mechanical drawing)
YMC256128-13AAAFUGN-LAQ	1 of 1	Ver. 7	21 Jan 25	(LCD drawing)
E386209	1 of 1	00	21 Jan 25	Schematics
E386210	1 to 5	00	21 Jan 25	Layout
E386208	1 of 1	00	21 Jan 25	Placement
E376833	1 to 5	01	21 Jan 25	Bill of material
9385448	1 to 3	--	21 Jan 25	Marking label
8029142	1 to 2	00	21 Jan 25	Instructions

Issue – 1

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
E385849	1 to 67	11	20 Aug 25	Technical Description CID100 - Explosion Protection Certification
E410291	1 of 1	00	20 Aug 25	Schematics
E410292	1 of 1	00	20 Aug 25	Layout
E410290	1 of 1	00	20 Aug 25	Placement
9385448	1 to 4	02	20 Aug 25	Type Label Display
KA 8030815 / EHS / EN / 01.00	1 to 3	00	20 Aug 25	Brief Operating Instruction