

UK Type Examination Certificate CML 21UKEX2002X Issue 1

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **FieldPort SWA50**
- 3 Manufacturer **Endress+Hauser SE+Co. KG**
- 4 Address **Hauptstraße 1, 79689 Maulburg, Germany**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.


- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:


EN IEC 60079-0:2018

EN 60079-11:2012

EN 60079-31:2014

- 10 The equipment shall be marked with the following:

 II 1 GD

 II 2 D

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ex tb IIIC T75°C Db

Ta= -40°C to +70°C





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11 Description

The Fieldport SWA50 converts HART signals into Bluetooth or Wireless HART signals, it can be fitted at any point of the 4-20mA line or directly onto the entry of the HART device.

The equipment is certified as both intrinsically safe (suitable for use in areas requiring EPL's Ga and Da when used with external barriers), and dust protected for use in areas requiring EPL Db when no barrier is used.

In intrinsically safe installations, safety is achieved by limiting energy storage and discharge, and by connecting to the non-hazardous area via intrinsically safe interface devices.

The equipment input/supply port (terminals X100-1 and X100-2) has the following safety description,

U _i	=	30 V
I _i	=	115 mA
P _i	=	750 mW
C _i	=	0
L _i	=	0

The Da variant has the following safety description

U _i	=	30 V
I _i	=	115 mA
P _i	=	650 mW
C _i	=	0
L _i	=	0

The output parameters of the field device port (terminals X102-1 and X102-2) are dependent upon the intrinsically safe barrier as follows:

U _o	=	U _o of barrier
I _o	=	I _o of barrier
P _o	=	P _o of barrier
C _i	=	0
L _i	=	0

Variation 1

This variation introduces the following modifications:

- i. Change to O-ring material.
- ii. Change to non-safety component.
- iii. Non safety related drawing update.



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	10 Nov 2020	R13205A/0	Prime Certification
1	31 Oct 2022	R14971A/00	Introduction of Variation 1

Note: Drawings that describe the equipment are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. The manufacturer shall ensure that any cable glands supplied with this equipment meet the requirements of EN 60079-31 and provide a minimum degree of protection of IP64, and are suitable for the ambient temperature range -40°C to +70°C.

14 Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment shall only be cleaned with a damp cloth.
- ii. When the equipment is connected directly to other apparatus in environments requiring EPL Db, the other apparatus shall be certified "tb" in accordance with the requirements of EN 60079-31.
- iii. When the equipment is connected directly to other apparatus in environments requiring EPL Ga, Gb, or Da, the interior of the other apparatus shall be pollution degree 2 or better. This is to maintain the IP rating of the device.

Certificate Annex

Certificate Number CML 21UKEX2002X
Equipment Fieldport SWA50
Manufacturer Endress+Hauser SE+Co. KG



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
961004054	1 of 1	B	10 Nov 2020	Enclosure SWA50
961004058	1 of 1	A	10 Nov 2020	Seal plug SWA50
961004060	1 of 1	A	10 Nov 2020	Housing Lower part SWA50
961004061	1 of 1	A	10 Nov 2020	Housing Upper part SWA50
961004062	1 of 1	A	10 Nov 2020	Upper housing Adapted Version SWA50
961004376	1 to 6	A	10 Nov 2020	Circuit Diagram (APP) SWA50 SWA550_ Fieldport System Overview
961004377	1 of 1	A	10 Nov 2020	Assembly Plan(APP) A
961004378	1 of 1	A	10 Nov 2020	Assembly Plan(APP) B
961004379	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) A1
961004380	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) A2
961004381	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) A3
961004382	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) B3
961004383	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) B2
961004384	1 of 1	A	10 Nov 2020	Conductive Pattern(APP) B1
961004385	1 of 1	A	10 Nov 2020	Printed Circuit Board(APP)
961004452	1 to 3	A	10 Nov 2020	Nameplate IECEx/ATEX Ex is IIC/IIIC, Ex tb IIIC Fieldport SWA50-...

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Drawing No	Sheets	Rev	Approved date	Title
961004376	1 to 6	B	31 Oct 2022	SWA50 Fieldport System Overview
961004377	1 of 1	B	31 Oct 2022	Assembly plan
961004378	1 of 1	B	31 Oct 2022	Assembly plan (APP)
961004400	1 to 48	B	31 Oct 2022	Technical description