IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx CML 20.0065X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2020-11-10)
Date of Issue:	2022-10-31		
Applicant:	**Endress+Hauser SE+Co. KG** Hauptstraße 1 79689 Maulburg **Germany**		
Equipment:	**FieldPort SWA50**		
Optional accessory:			
Type of Protection:	**Intrinsic Safety "ia", Protection by Enclosure "tb"**		
Marking:	Ex ia IIC T4 Ga Ex ia IIIC T135°C Da Ex tb IIIC T75°C Db Ta -40°C to +70°C		

Approved for issue on behalf of the IECEx Certification Body:	**A Snowdon**
Position:	**Certification Manager**
Signature: (for printed version)	A Snowdon
Date: (for printed version)	2022-10-31

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Certificate No.: **IECEx CML 20.0065X**

Date of issue: 2022-10-31 Issue No: 1

Manufacturer: **Endress+Hauser SE+Co. KG**
Hauptstraße 1
79689 Maulburg
Germany

Manufacturing locations:

Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.
China – Singapore Industrial Park (SIP)
Su-Hong-Zhong-Lu, No. 491
Jiangsu Province, 215021 Suzhou
China

Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.
M-192, Waluj MIDC, Aurangabad - 431 136
Maharashtra State
India

Endress+Hauser (USA)
Automation Instrumentation Inc.
2340 Endress Place
Greenwood, Indiana 46143
United States of America

See following pages for more locations

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/CML/ExTR20.0125/00 GB/CML/ExTR22.0238/00

Quality Assessment Report:

DE/TUN/QAR06.0003/10

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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.

Refer to Certificate Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Refer to Annex for specific conditions of use

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1:

This issue introduced the following changes:

1. Change to O-ring material.
2. Change to non-safety component.
3. Non safety related drawing update.

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Additional manufacturing locations:

Endress+Hauser Yamanashi Co., Ltd
862-1 Mitsukunugi Sakaigawa-cho
Fuefuki-shi Yamanashi Pref. 406-0846
Japan

Endress+Hauser (Brasil) Instrumentação e Aut.Ltda.
Estrada Municipal Antonio Sesti
600 Bairro Recreio Costa Verde
Itatiba, SP - 13254-085
Brazil

Annex:

CML 20.0065X Annex Iss 1.pdf

Annexe to:	**IECEx CML 20.0065X, Issue 1**
Applicant:	**Endress+Hauser SE+Co. KG**
Apparatus:	**FieldPort SWA50**

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,

Ui	=	30 V
Ii	=	115 mA
Pi	=	750 mW
Ci	=	0
Li	=	0

The Da variant has the following safety description

Ui	=	30 V
Ii	=	115 mA
Pi	=	650 mW
Ci	=	0
Li	=	0

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

Uo	=	Uo of barrier
Io	=	Io of barrier
Po	=	Po of barrier
Ci	=	0
Li	=	0

Eurofins E&E CML Limited
Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ

T +44 (0) 151 559 1160
E info@cmlex.com

www.cmlex.com

Company Reg No. 8554022 VAT No. GB163023642

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 IEC 60079-31 and provide a minimum degree of protection of IP64, and are suitable for the ambient temperature range -40°C to +70°C.

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 IEC 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.