



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx CML 16.0138

Issue No: 0

Certificate history:

[Issue No. 0 \(2017-05-25\)](#)

Status: **Current**

Page 1 of 3

Date of Issue: **2017-05-25**

Applicant: **Pepperl+Fuchs GmbH**
Lilienthalstraße 200
68307 Mannheim
Germany

Equipment: **Model 010041 Viator Bluetooth Interface**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:

Ex ia IIC T4 Ga

Tamb = -20°C to +50°C

*Approved for issue on behalf of the IECEx
Certification Body:*

A Snowdon

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](#).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Page 2 of 3

Manufacturer: **Pepperl+Fuchs GmbH**
Lilienthalstraße 200
68307 Mannheim
Germany

Additional Manufacturing location(s):

Pepperl+Fuchs Inc.
1600 Enterprise Parkway, Twinsburg, Ohio 44087, USA
United States of America

Pepperl+Fuchs Asia Pte. Ltd.
18 Ayer Rajah Crescent, P+F Building, Singapore 139942
Singapore

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/CML/ExTR16.0175/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/07](#) [US/UL/QAR07.0005/11](#)



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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Model 010041 Viator Bluetooth Interface.

See Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[IECEX CML 16.0138 Annex Issue 0.pdf](#)

Annexe to: IECEx CML 16.0138, Issue 0
Applicant: Model 010041 Viator Bluetooth Interface
Apparatus: Pepperl+Fuchs GmbH



Description

The Model 010041 Viator Bluetooth Interface is a wireless communication device for use with a certified HART enabled field device. The interface converts and transmits the electrical HART signal via a 2.4GHz radio transmitter to a suitable remote receiver.

The Model 010041 Viator Bluetooth Interface is contained on one main printed circuit board. The printed circuit board contains a 2.4GHz piggy back radio board. The apparatus is to be powered by three internal "AAA" Energizer Industrial EN92 alkaline batteries. The Model 010041 Viator Bluetooth Interface contains two clip leads for connection to a HART signal. The batteries are to be replaced only in the safe area.

The Model 010041 Viator Bluetooth Interface circuitry is contained inside of a polymeric anti-static handheld housing. Two leaded wires, approximately 17" long, extrude through the housing to the clips used for connection to the HART signal.

Probe 1 w.r.t. Probe 2

$U_i = 30V$, $I_i = 130mA$, $P_i = 1W$, $C_i = 0\mu F$, $L_i = 0mH$.

$U_o = 1.8V$, $I_o = 2.5mA$, $P_o = 1.1mW$, $C_o = 100\mu F$, $L_o = 1mH$.

The values of C_o and L_o shall apply when one of the two conditions below is given:

- The total L_i of the external circuit (excluding the cable) is $< 1\%$ of the L_o value, or
- The total C_i of the external circuit (excluding the cable) is $< 1\%$ of the C_o value.

The above parameters are reduced to 50% when both of the two conditions below are given:

- The total L_i of the external circuit (excluding the cable) $> 1\%$ of the L_o value, and
- The total C_i of the external circuit (excluding the cable) $> 1\%$ of the C_o value.

Note: the reduced capacitance of the external circuit (including cable) shall not be greater than $1\mu F$ for IIB and $600nF$ for IIC.

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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The equipment is to be designed in accordance with general electrical safety standards, e.g. IEC 60950

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