



# 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](http://www.iecex.com)

Certificate No.: **IECEX ULD 19.0013X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 1 [Issue 0 \(2019-12-10\)](#)  
Date of Issue: 2021-11-24  
Applicant: **VEGA Grieshaber KG**  
Am Hohenstein 113  
Schiltach, 77761  
Germany  
Equipment: **Pressure Transmitters, VEGABAR 28 (\*), VEGABAR 29 (\*), VEGABAR 38 (\*), VEGABAR 39 (\*)**  
Optional accessory:  
Type of Protection: **Intrinsic Safety "ia"**  
Marking: Ex ia IIC T4 Ga  
Ex ia IIC T4 Ga/ Gb  
Ex ia IIC T4 Gb  
-40 °C ≤ Ta ≤ +70 °C

Approved for issue on behalf of the IECEX  
Certification Body:

**Lucy Frieders**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:

2021-11-24

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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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL International DEMKO A/S**  
Borupvang 5A  
DK-2750 Ballerup  
Denmark





# IECEx Certificate of Conformity

Certificate No.: **IECEx ULD 19.0013X**

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Date of issue: 2021-11-24

Issue No: 1

Manufacturer: **VEGA Grieshaber KG**  
Am Hohenstein 113  
Schiltach, 77761  
Germany

Additional manufacturing locations: **VEGA Americas, Inc**  
4241 Allendorf Drive  
Cincinnati, Ohio 45209  
United States of America

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 60079-26:2014-10](#) Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga  
Edition:3.0

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:

[DK/ULD/ExTR19.0013/00](#)

[DK/ULD/ExTR19.0013/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0002/10](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx ULD 19.0013X**

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Date of issue: 2021-11-24

Issue No: 1

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*) pressure transmitters with ceramic or metallic measuring sensor cell.. Measured products are gases, vapours and liquids. The equipment must be connected to an external intrinsic safety barrier with consider to the electrical ratings. The output is performing as a 0/4-20 mA two-wire current output. The enclosures are manufactured of stainless steel type AISI316. Sensors can be mounted on reservoirs, pipelines and other units, at any position indoors and outdoors in wide range of environmental conditions. The sensors have no moving parts.

**Please see Annex for additional information.**

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Effective earthing of the equipment shall be secured through the mounting on the process equipment.
- The equipment should not be mounted on process equipment, in which pressure can exceed the range of 0.8 – 1.1 bar.
- For installation and operation of the equipment, the specifications given to the process media temperatures in the operating instructions shall be complied with.



# IECEX Certificate of Conformity

Certificate No.: **IECEX ULD 19.0013X**

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Date of issue: 2021-11-24

Issue No: 1

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Addition of alternate enclosure and update to drawings & pcbs.

**Annex:**

Annex to IECEX ULD 19.0013X Issue 1.pdf



# IECEX Certificate of Conformity

Certificate No.: IECEX ULD 19.0013X

Issue No.: 1

Page 1 of 2

## TYPE DESIGNATION AND PARAMETERS RELATING TO THE SAFETY

Safety relevant model coding of VEGABAR series:

The placeholder within brackets VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*) is reserved and considered as not safety relevant.

VEGABAR	a	b	(*)
2			Housing with M12- or ISO4400- Connector or Cable outlet wire.
3			Housing with Display Unit and M12- or ISO4400 - Connector.
8			Pressure transmitter with ceramic measuring cell
9			Pressure transmitter with metallic measuring cell

Ambient temperature range      Temperature class  
-40 °C to +70 °C                      T4

VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*) are pressure transmitters evaluated under the entity concept.

## ELECTRICAL RATINGS:

VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*)

Transmitter M12 (Pin 1, 3)- or ISO4400 (Pin 1, 2)- Plug or cable outlet wire:

4-20 mA two-wire superposed current output.

Ui       :     30 V  
Ii       :     131 mA  
Pi       :     0.983 W  
Li       :     5 µH  
Ci       :     0

Ci and Li do not include the capacitance/ inductance of cables to and from VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*)

Maximum cable length must be considered based on cable parameters:

Li' = 0.55 µH/m,

Ci'wire/wire = 58 pF/m,

Ci'wires/shield = 270 pF/m



# IECEx Certificate of Conformity

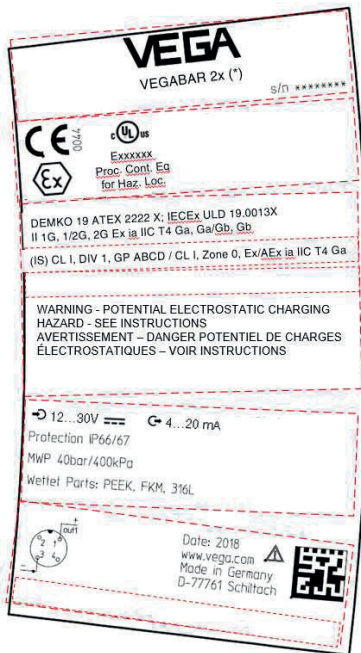
Certificate No.: IECEx ULD 19.0013X

Issue No.: 1

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## MARKING

Marking has to be readable and indelible; it has to include the following indications:





# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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Certificate No.: **IECEX ULD 19.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-12-10

Applicant: **VEGA Grieshaber KG**  
Am Hohenstein 113  
Schiltach, 77761  
Germany

Equipment: **VEGABAR 28 (\*)/ 29 (\*)/ 38 (\*)/ 39 (\*) (Pressure Transmitter)**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T4 Ga  
Ex ia IIC T4 Ga/ Gb  
Ex ia IIC T4 Gb  
  
-40 °C ≤ Ta ≤ +70 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:

2019-12-10

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Certificate No.: **IECEX ULD 19.0013X** Page 2 of 3

Date of issue: 2019-12-10 Issue No: 0

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Certificate No.: **IECEX ULD 19.0013X**

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## **Annex:**

[Annex to IECEx ULD 19.0013X Issue 0\\_1.pdf](#)



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Certificate No.: IECEx ULD 19.0013X

Issue No.: 0

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