



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx TUN 16.0002U** Page 1 of 4 [Certificate history](#)
Issue 1 (2017-08-17)
Issue 0 (2016-04-15)

Status: **Current** Issue No: 2

Date of Issue: 2019-11-15

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

Ex Component: **PLICSCOM and PLICSCOM(*)-B/W***

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC Ga or
Ex ib IIC Gb or
Ex ic IIC Gc


Approved for Issue on behalf of the IECEx
Certification Body:

Christian Roder

Position:

Head of the IECEx Certification Body

Signature:
(for printed version)


2019-11-15

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 www.iecex.com or use of this QR Code.



Certificate issued by:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1, 30519 Hannover
ny





IECEx Certificate of Conformity

Certificate No.: **IECEx TUN 16.0002U**

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Date of issue: 2019-11-15

Issue No: 2

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

Additional
manufacturing
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

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 Report:

DE/TUN/EXTR16.0015/02

Quality Assessment Report:

DE/TUN/QAR06.0002/09



IECEx Certificate of Conformity

Certificate No.: **IECEx TUN 16.0002U**

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Date of issue: 2019-11-15

Issue No: 2

Ex Component(s) covered by this certificate is describe below:

Subject and Type:

Display and adjustment module PLICSCOM and PLICSCOM(*)-B/W*

Description:

The display and adjustment module PLICSCOM with built-in display and control buttons is a passive intrinsically safe instrument.

The "AB-module" PLICSCOM is installed in a suitable VEGA device (e.g. plics, plicsplus equipment series) or Private Labeller (PL) device of identical design with intrinsically safe display and adjustment module interface and serves for establishment in explosive gas atmospheres which demand instruments of the category 1G (EPL Ga), 2G (EPL Gb) or 3G (EPL Gc).

Electrically, the display and adjustment module is connected by 4 spring loaded contacts in the lid of the electronics insert (VEGA-specific AB-module interface). There are 4 contact areas shifted by 90° on the bottom of the display and adjustment module. The display and adjustment module can therefore be fixed in 4 different viewing positions.

Electrical and thermal data:

See attachment to IECEx TUN 16.0002U issue 02

SCHEDULE OF LIMITATIONS:

The display and adjustment module PLICSCOM and PLICSCOM(*)-B/W* is suitable for an ambient temperature range of -40 °C to +80 °C.



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Certificate No.: **IECEX TUN 16.0002U**

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Date of issue: 2019-11-15

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Proof of conformity of the display and adjustment module PLICSCOM and PLICSCOM(*)-*B/W* to the current versions of the standards IEC 60079-0:2017 and IEC 60079-11:2011.

The variants with battery, version U and C are no longer available. They are no longer produced and delivered.

Annex:

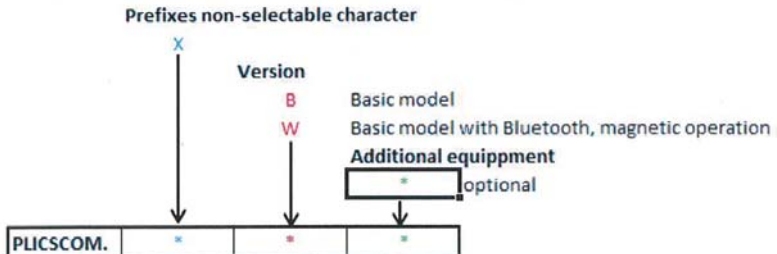
[Attachment to IECEX TUN 16.0002U issue 2.pdf](#)

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Attachment to IECEx TUN 16.0002 U issue No.: 2

General product information:

Subject and Type:

Display and adjustment module PLICSCOM and PLICSCOM(*)"B/W"



Description:

The display and adjustment module PLICSCOM with built-in display and control buttons is a passive intrinsically safe instrument.

The "AB-module" PLICSCOM is installed in a suitable VEGA device (e.g. plics, plicsplus equipment series) or Private Labeller (PL) device of identical design with intrinsically safe display and adjustment module interface and serves for establishment in explosive gas atmospheres which demand instruments of the category 1G (EPL Ga), 2G (EPL Gb) or 3G (EPL Gc).

Electrically, the display and adjustment module is connected by 4 spring loaded contacts in the lid of the electronics insert (VEGA-specific AB-module interface). There are 4 contact areas shifted by 90° on the bottom of the display and adjustment module. The display and adjustment module can therefore be fixed in 4 different viewing positions.

Details of Change:

Proof of conformity of the display and adjustment module PLICSCOM and PLICSCOM(*)"B/W" to the current version of the standard IEC 60079-0:2017.

The display and adjustment module PLICSCOM and PLICSCOM(*)"B/W" are already conform to the current version of the standard IEC 60079-11:2011 by issuing IECEx TUN 16.0002U issue 1 having ExTR Reference Number DE/TUN/ExTR16.0015/01 and ExTR Free Reference Number 17 217 195218 from 2017-08-14

The variants with battery, version U and C are no longer available. They are no longer produced and delivered.

Page 2 of 2
Attachment to IECEx TUN 16.0002 U issue No.: 2

Electrical data:

Power supply and signal circuit
(Spring contacts in the cover of
the electronic insert)

In type of protection intrinsic safety Ex ia IIC
Only for the connection to certified intrinsically safe VEGA devices
as well as their identically designed PL devices via a VEGA-
specific AB-module interface. The AB-module interface for
supplying the PLICSCOM is a proven AB-module interface with
I²C-bus communication for all VEGA devices.
The PLICSCOM(*) "B/W" is only used as part of a suitable VEGA
device with mechanical, electrical AB-module interface as well as
identical PL device.

Maximum values:

$U_i = 6\text{ V}$
 $P_i = 350\text{ mW}$
 $C_i = \text{negligibly small}$
 $L_i = \text{negligibly small}$

Effective internal capacitance
Effective internal inductance

Thermal data:

The permissible ambient temperature range: $-40\text{ °C} \leq T_a \leq +80\text{ °C}$
The maximum temperature rise for all PLICSCOM versions was established to $T = 34\text{ K}$.

Schedule of Limitations:

The display and adjustment module PLICSCOM and PLICSCOM(*) "B/W" is suitable for an ambient
temperature range of -40 °C to $+80\text{ °C}$.



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 TUN 16.0002U issue No.: 1

Certificate history:

Issue No. 1 (2017-8-17)

Issue No. 0 (2016-4-15)

Status: **Current**

Date of Issue: **2017-08-17** Page 1 of 4

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

Equipment: **PLICSCOM and PLICSCOM(*) *B/W/U/C***
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC Ga, Gb, Gc
Ex ib IIC Gb, Gc
Ex ic IIC Gc

Approved for issue on behalf of the IECEx
Certification Body:

Andreas Meyer

Position:

Head of the Certification Body

Signature:
(for printed version)

Date:


2017-08-17

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:





IECEX Certificate of Conformity

Certificate No.: IECEX TUN 16.0002U

Date of Issue: 2017-08-17

Issue No.: 1

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

Additional Manufacturing location(s):

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 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:
DE/TUN/ExTR16.0015/01

Quality Assessment Report:

DE/TUN/QAR06.0002/07



IECEx Certificate of Conformity

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The display and adjustment module PLICSCOM with built-in display and control buttons is a passive or active (internal primary cell as buffer), intrinsically safe instrument.

SPECIFIC CONDITIONS OF USE: NO



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

- Upgrade Model type code PLICSCOM(*).B/W/U/C*
- Changes of schematic SB1503-1-00-0 and SB1503-1-02-0
- Extension of protection type marking
- Additional Manufacturing location added

Annex: CoC_16.0002U_01_Addendum.pdf

Product:

Display and adjustment module
PLICSCOM(*).*BW/U/C*

Prefixes non-selectable character			
X			
	Version		
	B	Basic model	
	W	Basic model with Bluetooth, magnetic operation	
	U	Basic model with Bluetooth, magnetic operation, battery	
	C	Basic model with Bluetooth; without display, operation, battery	
		Additional equipment	
		*	optional
PLICSCOM(*)	*	*	*

Details of Change:

- Upgrade Model type code PLICSCOM(*).*BW/U/C*
- Changes of schematic SB1503-1-00-0 and SB1503-1-02-0
- Extension of protection type marking
- Additional Manufacturing location added

Technical Data:

Maximum permissible ambient temperature range: -40°C to +80°C (unchanged)

Electrical Data:

U_i=6.0V
P_i=350mW
(unchanged)

Special Conditions for Safe Use / Notes for Erection:

none

