Translation

EU-Type Examination Certificate Supplement 11

Change to Directive 2014/34/EU

- 2 Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: BVS 04 ATEX E 080 X
- Radar-Sensor type VEGAPULS PS6*(*).*******, PSSR68(*).******* 4 Product:
- 5 Manufacturer: VEGA Grieshaher KG
- Am Hohenstein 113, 77761 Schiltach, Germany 6 Address:
- This supplementary certificate extends EC-Type Examination Certificate No. BVS 04 ATEX E 080 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.
- DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 042081 EU

Compliance with the Essential Health and Safety Requirements has been assured by compliance with: 9

EN 60079-0:2012 + A11:2013 General requirements EN 60079-31:2014 Protection by Enclosure "t"

- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the 10 Special Conditions for Use specified in the appendix to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified 11 product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following: 12

II 1D Ex ta IIIC T see manual Da

II 1/2D Ex ta/tb IIIC T see manual Da/Db II 1/3D Ex ta/tc IIIC T see manual Da/Dc II 2D Ex th IIIC T see manual Db

DEKRA EXAM GmbH Bochum, 2018-02-28

Signed: Jörg Koch

Signed: Dr Michael Wittler

Certifier

Approver



DAkkS Aldred derungsstelle D 26 12060 03 00

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Appendix

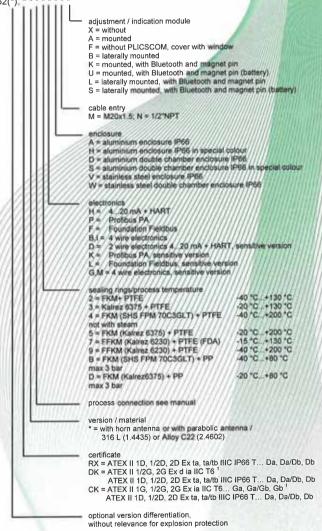
14 EU-Type Examination Certificate

BVS 04 ATEX E 080 X Supplement 11

15 Product description

15.1 Subject and type

Radar sensor type (Hardware-Version ≥ 2.00; Software-Version ≥ 4.00) VEGAPULS PS 62(*). * * * * * * * *



¹ The assessment for use in explosive gas atmospheres is <u>not</u> part of this test report.

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P 000

Radar sensor type (Hardware-Version ≥ 2.00; Software-Version ≥ 4.00) VEGAPULS PS 63(*).

> adjustment / indication module X = without

A = mounted

F = without PLICSCOM, cover with window

B = laterally mounted

K = mounted, with Bluetooth and magnet pin U = mounted, with Bluetooth and magnet pin (battery)

L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (butlery)

cable entry

M = M20x1.5: N = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour D = aluminium double chamber enclosure IP66

S = aluminium double chamber enclosure IP66 in special colour

V = stainless steel enclosure IP66

W = stainless steel double chamber enclosure IP66

electronics 4...20 mA + HART

H =

Pa Profibus PA

E s Foundation Fieldbus B.1 = 4 wire electronics

2 wire electronics 4...20 mA + HART, sensitive version D=

Profibus PA, sensitive version K=

Foundation Fieldbus, sensitive version GM= 4 wire electronics sensitive version

process connection see manual

version / material

= with hygienically encapsulated norn antenna

certificate

RX = /ATEX.II 1D, 1/2D, 2D Ex ta, ta/t6 IIIC IP66 T./, Da, Da/Db/Db ATEX II 1/2G, 2G Ex d ia IIC T6

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC 1P66 T ... Da, Da/Db / Db ATEX II 1G, 1/2G, 2G Ex la IIC T6... Ga, Ga/Gb, Gb

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db optional version differentiation, without relevance for explosion protection

The assessment for use in explosive gas atmospheres is not part of this test report.

DAKKS

Page 3 of 17 of BVS 04 ATEX E 080 X / N11 This certificate may only be reproduced in its entirety and without any change. Radar sensor type (Hardware-Version ≥ 2.00; Software-Version ≥ 4.00) VEGAPULS PS 66(*)

> adjustment / indication module X = without A = mounted

F = without PLICSCOM, cover with window

B = laterally mounted K = mounted, with Bluetooth and magnet pin

U = mounted, with Bluetooth and magnet pin (battery)

L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery)

cable entry

M = M20x1.5; N = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour D = aluminium double chamber enclosure IP66

S = aluminium double chamber enclosure IP66 in special colour

V = stainless steel enclosure IP66

W = stainless steel double chamber enclosure IP66

electronics

H= 4...20 mA + HART

P.E Profibus PA Foundation Fieldbus

B.1 = 4 wire electronics

sealing rings/process temperature 5 = EPDM 40/C./+150 TC

40 °C. +150 °C -20 °C. +150 °C -60 °C. +250 °C 2 = FKM/ 3 = Kalrez 6375/ G = graphite and ceramics.

with temperature adapter H = graphite and ceramics/ 60/°C ... +400 °C with temperature adapter

process connection see manual

version / material

= with hom antenna or parabolic antenna / 316 L (1.4435) or Alloy C22 (2.4602)

RX = ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T,.. Da, Da/Db, Db ATEX II 1/2G, 2G Ex d la IIC T6

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db CK = ATEX II 1G, 1/2G, 2G Ex is IIC T6. Ga, Ga/Gb, Gb

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db

optional version differentiation. without relevance for explosion protection



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DENE

DEKRA :

Radar sensor type (Hardware-Version ≥ 2.00; Software-Version ≥ 4.00) VEGAPULS PS 67(*). * B ** * * * *

adjustment / indication module X = without A = mounted F = without PLICSCOM, cover with window B = laterally mounted K = mounted, with Bluetooth and magnet pin U = mounted, with Bluetooth and magnet pin (battery) L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery) cable entry M = M20x1.5; N = 1/2"NPT enclosure A = aluminium enclosure IP66 H = aluminium enclosure IP66 in special colour D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special colour stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66 electronics He 4...20 mA + HART Po Profibus PA E = Foundation Fieldbus 4 wire electronics B.1 = process connection / material see manual version / material / process temperature B = with plastic horn antenna 12:80 mm / PP / 40 °C ... +80 °C RX = /ATEX.II 10, 1/2D, 2D, Ex ta, ta/tb.IIIC IR68 T. .. Da, Da/Db, Db optional version differentiation, without relevance for explosion protection



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Radar sensor type (Hardware-Version ≥ 2.00; Software-Version ≥ 4.00) VEGAPULS PSSR 68(*). * * * * *

VEGAPULS PS 68(*)

adjustment / indication module X = without

A = mounted

F = without PLICSCOM, cover with window

B = laterally mounted K = mounted, with Bluetooth and magnet pin

U = mounted, with Bluetooth and magnet pin (battery)

L = laterally mounted, with Bluetooth and magnet pin

S = laterally mounted, with Bluetooth and magnet pin (battery)

cable entry

M = M20x1.5: N = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour

D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special

B.1 =

V = stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66

electronics

H= 4...20 mA + HART P= Profibus PA

F= Foundation Fieldbus 4 wire electronics

sealing rings/process temperature

2 = FKM+ PTFE

3 = Kalrez 6375 + PTFE 20 °C ... +130 °C 4 = FKM (SHS FPM 70C3GLT) + PTFE 40 °C +200 °C

40 °C ... +130 °C

not with steam 20 °C ... +200 °C 5 = FKM (Kalrez 6375) + PTFE 7 = FFKM (Kalrez 6230) + PTFE (FDA)

15 °C ... +130 °C 9 = FFKM (Kalrez 6230) + PTFE

process connection see manual

version / material with hom antenna or parabolic antenna. 316 L (1.4435) or Alloy C22 (2.4602)

without relevance for explosion protection

certificate

RX = / ATEX II 1D, 1/2D, 2D Ex ta, ta/t6 IIIC IP66 T... Da, Da/Db, Db

DK = ATEX II 1/2G, 2G Ex d ia IIC T6 ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db

CK = ATEX II 1G, 1/2G, 2G Ex ia IIC T6... Ga, Ga/Gb, Gb

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T ... Da, Da/Db, Db optional version differentiation,



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The assessment for use in explosive gas atmospheres is not part of this test report.

Radar sensor type (Hardware-Version ≤ 1.10; Software-Version ≤ 3.90) VEGAPULS PS 62(*). * * * * * * * * *

adjustment / indication module X = without A = mounted F = without PLICSCOM, cover with window B = laterally mounted K = mounted, with Bluetooth and magnet pin U = mounted, with Bluetooth and magnet pin (battery) L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery) cable entry A = M20x1.5; B = 1/2"NPT enclosure A = aluminium enclosure IP66 H = aluminium enclosure IP66 in special colour D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special colour V = stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66 electronics 2 wire electronics 4...20 mA + HART H = 2 wire electronics 4 .. 20 mA + HART D= sensitive version 4 wire electronics 4 .. 20 mA + HART 4 wire electronics 4 ... 20 mA + HART E= sensitive version sealing rings/process temperature 40 °C +130 °C 20 °C +130 °C 40 °C +200 °C 2 = FKM+ PTFE 3 = Knirez 8375 + PXFE 4 = FKM (SHS FPM 70C3GLT) + PTFE not with steam 5 = FKM (Kalrez6375) + PTFE 20 °C .. +200 °C 7 = FFKM (Kalrez,6230) + PTFE (FDA) 15 °C. +130 °C 40 °C...+200 °C 9 = FFKM (Kalrez 6230) + PTFE B = FKM (SHS FPM 70C3GLT) * PP max 3 bar 20 °C ... +80 °C D = FKM (Kalrez6375) + PP max 3 bar process connection see manual version / material * = with horn antenna or parabolic antenna / 316 L (1.4435) or Alloy C22 (2.4602) GX = ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db DK = ATEX II 1/2G, 2G Ex d ia IIC T6 ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ... Ga, Ga/Gb, Gb ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T ... Da, Da/Db, Db optional version differentiation,



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without relevance for explosion protection

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Radar sensor type (Hardware-Version ≤ 1.10; Software-Version ≤ 3.90) VEGAPULS PS 63(*). * * * * * * * * *

adjustment / indication module X = without A = mounted F = without PLICSCOM, cover with window B = laterally mounted K = mounted, with Bluetooth and magnet pin U = mounted, with Bluetooth and magnet pin (battery) L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery) cable entry A = M20x1,5; B = 1/2"NPTenclosure A = aluminium enclosure IP66 H = aluminium enclosure IP66 in special colour D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special colour V = stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66 electronics 2 wire electronics 4...20 mA + HART H = 0 = 2 wire electronics 4...20 mA + HART sensitive version. 4 wire electronics 4...20 mA + HART 4 wire electronics 4, 20 mA + HART E = sensitive version sealing rings/process temperature -40°C..+150°C 1 = PTFE 2 = PPHprocess connection see manual version / material * = with hygienically encapsulated horn antenna GX = ATEX II 1D, 1/2D, 2D Ex.ta, ta/tb/IIC IP66 T... Da, Da/Db, Db DK = ATEX II 1/2G, 2G Ex d ia liC T6/ ATEX II 1D: 1/2D, 2D Ex to, ta/tb IIIC (P66 T... Da; Da/Db, Db ATEX II 1G, 1/2G, 2G Ex la IIC T6 ... Ga, Ga/Gb, Gb ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db optional version differentiation, without relevance for explosion protection

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adjustment / indication module X = without A = mounted

F = without PLICSCOM, cover with window B = laterally mounted

K = mounted, with Bluetooth and magnet pin

U = mounted, with Bluetooth and magnet pin (battery)

L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery)

cable entry A = M20x1.5; B = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour

D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special colour

V = stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66

electronics

2 wire electronics 4., 20 mA + HART Ha 2 wire electronics 4 20 mA + HART D=

sensitive version 4 wire electronics 4 / 20 mA + HART 4 wire electronics 4...20 mA + HART E= sensitive version

sealing rings/process temperature 5 × EPDM / 40 °C 40 °C...+150 °C 20 °C...+150 °C 2 = EKM I3 = Kalrez 6375/

60 °C / +250 °C G = graphite and ceramics / 60 °C / +400 °C H = graphite and ceramics //

process connection see manual

version / material

= with hom antenna or parabolic antenna / 316 L (1.4435) or Alloy C22 (2.4602)

certificate GX = ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T ... Da, Da/Db, Db DK = ATEX II 1/2G, 2G Ex d ia IIC T6

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP68 T ... Da, Da/Db, Db

ATEX II 1G, 1/2G, 2G Ex la IIC T6... Ga, Ga/Gb, Gb ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T., Da, Da/Db, Db

optional version differentiation. without relevance for explosion protection

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¹ The assessment for use in explosive gas atmospheres is <u>not</u> part of this test report.

Radar sensor type (Hardware-Version ≤ 1.10; Software-Version ≤ 3.90) VEGAPULS PS 67(*), * B ** * * *

adjustment / indication module

X = withoutA = mounted

F = without PLICSCOM, cover with window

B = laterally mounted

K = mounted, with Bluetooth and magnet pin

U = mounted, with Bluetooth and magnet pin (battery) L = laterally mounted, with Bluetooth and magnet pin

S = laterally mounted, with Bluetooth and magnet pin (battery)

cable entry M = M20x1.5; N = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour

D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special

V = stainless steel enclosure IP66 W = stainless steel double chamber enclosure IP66

electronics

2 wire electronics 4 .. 20 mA + HART 4 wire electronics 4 .. 20 mA + HART H×

process connection / material see manual

version / material / process temperature

B = with plastic horn antenna Ø 80 mm / PP /-40 °C...+80 °C

GX = ATEX II (D. 1/20, 20 Ex ta. ta/tb/IIIC IP66 T. Da. Da/Db. Db

optional version differentiation, without relevance for explosion protection

The assessment for use in explosive gas atmospheres is not part of this test report



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Radar sensor type (Hardware-Version ≤ 1.10; Software-Version ≤ 3.90) VEGAPULS PS 68(*).

> adjustment / indication module X = without

A = mounted

F = without PLICSCOM, cover with window

B = laterally mounted

K = mounted, with Bluetooth and magnet pin U = mounted, with Bluetooth and magnet pin (battery)

L = laterally mounted, with Bluetooth and magnet pin S = laterally mounted, with Bluetooth and magnet pin (battery)

cable entry

A = M20x1.5; B = 1/2"NPT

enclosure

A = aluminium enclosure IP66

H = aluminium enclosure IP66 in special colour

D = aluminium double chamber enclosure IP66 S = aluminium double chamber enclosure IP66 in special

colour V = stainless steel enclosure IP66

W = stainless steel double chamber enclosure IP66

electronics

H= 2 wire electronics 4., 20 mA + HART 2 wire electronics 4 .. 20 mA + HART D=

sensitive version 4 wire electronics 4 .. 20 mA + HART

4 wire electronics 4 ... 20 mA + HART E 4 sensitive version

sealing rings/process temperature.

40 C ... +130 °C 2 = FKM+ PTFE 20 °C...+130 °C 3 = Kalrez 6375 + PTEE 4 = FKM (SHS FPM 70C3GLT) + PTFE

not with steam 5 = FKM (Kalrez-6375) + PTFE 20 °C ... +200 °C

15 °C +130 °C 7 = FFKM (Kalrez 6230) + PTFE (FDA) 9 = FFKM (Kalrez 6230) + PTFE

process connection see manual

version / material

with horn antenna or parabolic antenna 316 L (1,4435) or Alloy C22 (2,4602)

certificate

GX = ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db DK = ATEX II 1/2G, 2G Ex d ia IIC T6

ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Ob, Db

ATEX II 1G, 1/2G, 2G Ex ia IIC T6 ... Ga, Ga/Gb, Gb ATEX II 1D, 1/2D, 2D Ex ta, ta/tb IIIC IP66 T... Da, Da/Db, Db

optional version differentiation, without relevance for explosion protection

(DAkks

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DEKRA

15.2 Description

With this supplement the certificate is changed to Directive 2014/34/EU. (Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reason for the supplement:

- Change to Directive 2014/34/EU
- Update to EN60079-0:2012+A11:2013
- Resumption of formerly certified device versions
- PLICSCOM3 added
- VEGAPULS PS69 removed from certificate

Description of Product

The Radar sensor type VEGAPULS PS6*(*).******** und PSSR68(*).******* is used to measure the distance between the surface of combustible dust generating material and the sensor. It can be installed in any zone or partition wall.

The Radar sensor can operate with different electronic inserts protected by VA/AL-housing and

The Radar sensor can operate with different electronic inserts protected by VAAL-housing and connected antenna, antenna extensions and rinsing connections are possible.

The electronics enclosure is separately approved (BVS 14 ATEX E 121 U)

15.3 Parameters

15.3.1 Hardware version ≥ 2.00 Software version ≥ 4.00

15.3.1.1 electrical data

VEGAPULS PS62/63(*) RX***D/H/K/L/P/F***
VEGAPULS PS66/68(*) RX***H/P/F***
VEGAPULS PSS668(*) RX***H/P/F***
Supply
terminals 1 [+], 2 [-] in the electronics

terminals 1 [+], 2 [-] in the electronics compartment or in the terminal compartment regarding the two cell enclosure version

VEGAPULS PS62/63(*) RX ***B/G**
VEGAPULS PS66/68(*) RX ***B**
VEGAPULS PS87(*) RX ***B**
VEGAPULS PS87(*) RX ***B**
supply AC
(terminals 1, 2 in the terminal compartment)
output

(terminals 5[+], 7[-] in the terminal compartment) passive signal current, input

(terminals 6[+], 7[-] in the terminal compartment)

VEGAPULS PS62/63(*).RX***I/M***
VEGAPULS PS66/68(*).RX***I***
VEGAPULS PSSR68(*).RX***I***
VEGAPULS PS67(*).RX**I***
supply

(terminals 1, 2 in the terminal compartment)

/U ≠ / 9.630 V DC /U_m = 30 V DC

90...253 V, 50/60 Hz U_m = 253 V AC 4...20 mA with superposed HART-signal

4...20 mA with superposed HART-signal

AC 20...42 V, 50/60 Hz or DC 9,6...48 V U_m = 253 V AC



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MEA D

D HIND DEKRA output

(terminals 5[+], 7[-] in the terminal compartment)

passive signal current, input

(terminals 6[+], 7[-] in the terminal compartment)

VEGAPULS PS62/63(*), RX***D/H/K/L/P/F*** VEGAPULS PS66/68(*).RX***H/P/F*** VEGAPULS PSSR68(*).RX***H/P/F*** VEGAPULS PS67(*). RX**H/P/F*** adjustment and indication circuit (terminals 5, 6, 7, 8 in the electronics

in type of protection Intrinsic Safety Exia IIC only for connection to the intrinsically safe circuit of the compartment) associated VEGA

4...20 mA with superposed HART-signal

4...20 mA with superposed HART-signal

according to PTB 02 ATEX 2136X and BVS 05 ATEX E 023

adjustment and indication unit VEGADIS61

uH L_{Kabel - cable} ≤ 310

(PTB 07 ATEX 2013X)

2.0 μF C_{Kabel - cable} ≤ in type of protection Intrinsic Safety Ex ia IIC only for connection to the intrinsically safe VEGA adjustment and indication unit (PLICSCOM) or VEGACONNECT4

VEGAPULS PS62/63(*) RX***G/M/B/I*** VEGAPULS PS66/68(*) RX***B/1*** VEGAPULS PSSR68(*) RX***B/I*** VEGAPULS PS67(*). RX**B/I*** adjustment and indication circuit (spring contacts in the electronics compartment)

adjustment and indication circuit

compartment)

(spring contacts in the electronics

in type of protection Intrinsic Safety Ex la IIC only for connection to the intrinsically safe VEGA adjustment and indication unit (PLICSCOM) of VEGACONNECTA (PTB 07 ATEX/2013X)

15312 Thermal data

15.3.1.2.1 Permitted process temperature at the probe

VEGAPULS PS62(*), ***X**

2 = FKM(SHS FPM 70C3 GLT) + PTFE / 40 °C.,+130 °C -20 °C ...+130 °C -15 °C ...+130 °C 3 = Kalrez 6375 + PTFE/ 6 = Kalrez 2035 + PTFE / 7 = Kairez 6230 + PTFE / -15 °C ... +130 °C -40 °C ... +200 °C A = FKM(SHS FPM 70C3 GLT)+PEEK / -15 °C +210 °C C = Kalrez 2035 + PEEK/ -15 °C ... +250 °C E = Kalrez 6230 + PEEK / -20 °C ... +250 °C F = Kalrez 6375 + PEEK /

VEGAPULS PS63(*) *X**

-40 °C ... +200 °C N = PTFE / -196 °C ... +200 °C J = PTFE -40 °C ... +200 °C R = PTFE (8mm) -40 °C ... +200 °C L = PFA -40 °C ... +200 °C M = PFA (8mm)-20 °C ... +130 °C V = PTFE + FKM -40 °C...+130 °C E = PTFE + EPDM -196 °C ... +200 °C U = PTFE (8mm)

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H = graphite and ceramics /

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-196 °C... +450 °C

15.3.1.2.2 15.3.1.2.3

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VEGAPULS PS66(*).****X*** X:	2 = FKM (A+P G 3 = Kalrez 6375 5 = EPDM / G = graphite and with temper H = graphite and	d ceramics / ature adapter	-40 °C+150 °C -20 °C+150 °C -40 °C+150 °C -60 °C+250 °C -60 °C+400 °C		
VEGAPULS PS67(*).*X***** X:	B = PP /		-40 °C,+80 °C		
VEGAPULS PS68.***X**** X: 2 = FKM (SHS		PM 70C3 GLT) + PTFE /	-40 °C+130 °C		
VEGAPULS PSSR68(*).***X* X:	3 = Kalrez 6375 7 = Kalrez 6230	+ PTFE / FPM 70C3 GLT) + PEEK / + PEEK / + PEEK / + PEEK /	-20 °C . +130 °C . +130 °C . +130 °C . +200 °C . +200 °C . +210 °C . +250 °C . +250 °C . +250 °C . +450 °C		
Permitted ambient temperature at the electronics enclosure 40 °C + 60 °C					
Maximum surface temperature The max. surfacetemperature is the higher one of the following:					
Maximum surface temperature at the probe		process temperature + 2 K			
Maximum surface temperature at the electronics enclosure for installation in zone 20					
VEGAPULS PS62/63(*),RX ***DIK/L*** VEGAPULS PS62/63/66(*),RX ***H/P/F*** VEGAPULS PS/PSSR68(*),RX ***H/P/F*** VEGAPULS PS67(*),RX ***H/P/F***		ambient temperature + 86 K ambient temperature + 86 K ambient temperature + 88 K ambient temperature + 86 K			
VEGAPULS PS62/63(*),RX***G/M*** VEGAPULS PS62/63/66(*),RX***B/I*** VEGAPULS PS/PSSR68(*),RX***B/I*** VEGAPULS PS67(*),RX**B/I***		with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C			
Maximum surface temperature at the electronics enclosure for installation in zone 20/21, 20/22, 21					
VEGAPULS PS62/63(*),RX ***D/K/L*** VEGAPULS PS62/63/66(*),RX ***H/P/F*** VEGAPULS PS/PSSR68(*),RX ***H/P/F*** VEGAPULS PS67(*),RX ***H/P/F***		ambient temperature + 36 K ambient temperature + 36 K ambient temperature + 36 K ambient temperature + 36 K			
VEGAPULS PS62/63(*),RX***G/M*** VEGAPULS PS62/63/66(*),RX***B/I*** VEGAPULS PS/PSSR68(*),RX***B/I*** VEGAPULS PS67(*),RX**B/I***		with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C with thermo fuse limited to 102 °C			
Degrees of protection according to EN 60529		IP66			
Hardware version ≤ 1.10; Software version ≤ 3.90					



15.3.1.3 15.3.2

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Electrical data 15.3.2.1

15.3.2.1.1 VEGAPULS PS66/68.GX ***V*** VEGAPULS PS62/63.GX ***E/V*** VEGAPULS PS67.GX**V***

supply AC 20...253 V, 50/60 Hz or (terminals 1, 2 in the terminal compartment) DC 20...253 V

P_may ≤ 1 W

(terminals 3, 4 in the terminal compartment)

4...20 mA with superposed HART-signal

15.3.2.1.2 VEGAPULS PS66/68(*).GK***H*** VEGAPULS PS62/63(*).GK***D/H***

> Supply and signal circuit terminals 1 [+], 2 [-] in the electronics circuit compartment or in the terminal compartment regarding the two cell enclosure version

in type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe

with the following maximum values: $U_i = 30$ = 131 mA

= 983 mW linear characteristics L≈5 µH C, negligible

15.3.2.2 Thermal data

15.3.2.2.1 Permitted process temperature at the probe VEGAPULS PS62. ***X****

VEGAPULS PS62(*) ***X****

2 = Viton3 = Kairez 6375 4 = Viton with temperature adapter 5 = Kalrez 6375

-40 °C ... +200 °C -20 °C ... +200 °C with temperature adapter -15 °C ...+130 °C

max, 3 bar

-30 °C ... +130 °C

-20 °C. +150 °C

7 = Kairez 6230 + PTFE (FDA) 9 = Kairez 6230 + PTFE -15 °C .. +200 °C with temperature adapter B = FKM(SHS/FPM 70C3/GLT)+PP -40 °C...+80 °C max. 3 bar -40 °C ... +80 °C D = Kalrez 6375 + PP

VEGAPULS PS63 ***X**** N = PTFE/ VEGAPULS PS63(*) ***X**** J = PTFE

-40 °C ... +200 °C -196 °C...+200 °C -40 °C...+200 °C R = PTFE (8 mm) U = PTFE (8 mm) -196 °C ... +200 °C

G = Alloy 400 (2.4360). TFM-PTFE(8 mm) W = PCTFE(8 mm) * other horn antennas

A = TFM-PTFE(8 mm) P = TFM-PTFE

-40 °C ... +150 °C -10 °C ... +150 °C -40 °C ... +200 °C

-40 °C ... +150 °C

VEGAPULS PS67.*X***** VEGAPULS PS67(*).*X***** B = PP* other horn antennas -40 °C...+80 °C

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VEGAPULS	PS66.****X****
VEGAPULS	PS66(*).****X****

X:	2 =	Viton
	3 =	Kalrez

6375

5 = EPDM (A+P 75.5/KW75F)

G = graphite and ceramics with temperature adapter H = graphite and ceramics

with temperature adapter

-40 °C...+150 °C -60 °C...+250 °C -60 °C ... +400 °C

-40 °C...+130 °C

-20 °C ... +150 °C

-40 °C ...+200 °C

-15 °C .. +200 °C

-30 °C...+130 °C

-20 °C ... +150 °C

VEGAPULS PS68.***X**** VEGAPULS PS68(*).***X**** X: 2 = Viton 3 = Kalrez 6375

4 = Viton

with temperature adapter 5 = Kalrez 6375

9 = Kalrez 6230 + PTFE

-20 °C ...+200 °C with temperature adapter 7 = Kalrez 6230 + PTFE (FDA) -15 °C ... +130 °C

with temperature adapter

Permitted process temperature at the probe

The max, surface temperature is the higher one of the following:

process temperature +2 K

Permitted ambient temperature at the electronics enclosure VEGAPULS PS62/63/66/67/68.GX ****H**** VEGAPULS PS62/63.GX ****D****

ambient temperature + 43 K ambient temperature + 43 K

VEGAPULS PS62/63/66/67/68.GX****V**** VEGAPULS PS62/63 GX****E****

with thermo fuse limited to 98 °C with thermo fuse limited to 98 °C

15.3.2.3 Degrees of protection according to EN 60529 IP66

16 Report Number

15.3.2.2.2

BVS PP 04.2081 EU, as of 2018-02-28

Special Conditions for Use 17

- Variants of the radar sensor type VEGAPULS PS6* CK/GK****** for which aluminium is 17.1 used shall be installed in such a way that sparking as a result of impact or friction between aluminium and steel (with the exception of stainless steel if the presence of rust particles can be excluded) is excluded.
- The radar sensor type VEGAPULS PS6*.CK/GK****** shall be installed in such a way that 17.2 contact between the measuring sensor and the tank wall will be excluded with sufficient safety considering the tank installations and the flow conditions inside the tank. This applies. in particular, to the measuring sensors which are more than 3 m long.



18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH Bochum, dated 2018-02-28 BVS-Hor/Hk/Nu A 20170331

Certifier

Approver

