



EU-TYPE EXAMINATION CERTIFICATE (1)

(Translation)

- (2)Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - Directive 2014/34/EU
- (3) EU-Type Examination Certificate Number:

PTB 17 ATEX 2014 X

Issue: 1

(4) Product: Vibrating level switch VEGAWAVE, type code WE6*(*).CX***N/Z***

(5) Manufacturer:

VEGA Grieshaber KG

(6) Address: Am Hohenstein 113, 77761 Schiltach, Germany

- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the (8) 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 Test Report PTB Ex 23-21051.

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

EN IEC 60079-0:2018+AC:2020, EN 60079-11:2012, IEC 60079-26:2021

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

II 1 G Ex ia IIC T6...T1 Ga

or

II 1/2 G Ex ia IIC T6...T1 Ga/Gb

or

II 2 G Ex ia IIC T6...T1 Gb

Konformitätsbewertungsatelle Spektor Explosionsschutz

Braunschweig, February 27, 2023

On behalf of PTB:

Dr .- Ing.M. Thedens

Direktor und Professor

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ZSEx001e

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.





SCHEDULE

(14) EU-Type Examination Certificate Number PTB 17 ATEX 2014 X, Issue: 1

(15) Description of Product

The vibrating level switch VEGAWAVE, type code WE6*(*).CX***N/Z*** are used for level measurement in potentially explosive gas atmospheres requiring category-1 or category-1/2 or category-2 equipment.

They consist of an electronic housing with the corresponding evaluation electronic, the process connectors and the sensor.

Extract from the type key

VEGAWAVE			*	*	*	*	*
WE6*(*).	*	*	_	_	_	_	_
* 1, 2, 3	-	-	d	f	g	h	i
	h	6			-		

ab: area of validity

CX = ATEX II 1G, 1/2G, 2G Ex ia IIC T6..T1 Ga, Ga/Gb, Gb

CK = ATEX II 1G, 1/2G, 2G Ex ia IIC T6..T1 Ga, Ga/Gb, Gb +

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

CI = IECEx Ex ia IIC T6 Ga Ga/Gb, Gb

c: adapter / process temperature / cable

de: process connection / material

f: electronics

Z = 2- wire signal N = NAMUR-signal

g: enclosure / protection

h: cable gland / plug connection

i: additional equipment

The full type code can be found in the safety instructions.

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Category-1 equipment

The vibration level switches are installed in potentially explosive atmospheres requiring category-1 equipment.

Category-1/2 equipment

The electronics housing is installed in potentially explosive atmospheres requiring category-2 equipment. The process connectors are installed in the partition separating areas requiring category-2 or category-1 equipment. The sensor is installed in potentially explosive atmospheres for category-1 equipment.

Category-2 equipment

The vibration level switches are installed in potentially explosive atmospheres requiring category-2 equipment.

For the relationship between the temperature class and the maximum permissible temperature at the sensor and the maximum permissible ambient temperature for the evaluation electronic, reference is made to the following table.

Category-1 equipment

2- wire signal / NAMUR-signal

temperature class	permissible temperature for the electronic system	permissible ambient temperature at the sensor
T6	-20 +60 °C	-20 +60 °C
T5	-20 +60 °C	-20 +60 °C
T4, T3, T2, T1	-20 +60 °C	-20 +60 °C

For applications requiring category-1 equipment, the media process pressure has to be between 0.8 bar and 1.1 bar. For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

Category-1/2 equipment

2- wire signal

tempera-	permissible temperature	permissible ambient	permissible ambie	nt temperature at
ture class	for the electronic system	temperature at the	the sensor of the	
		sensor of the	VEGAWAVE	WE61/63***
		VEGAWAVE	without	with
		WE62***	temperatu	re adapter
T6	-40 °C +55 °C	-20 °C +60 °C	-50 °C+ 85 °C	-50 °C+ 85 °C
T5	-40 °C +70 °C		-50 °C+100 °C	
T4	-40 °C +80 °C	-20 °C +60 °C	-50 °C+135 °C	-50 °C+135 °C
T3	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C	-50 °C+200 °C
T2, T1	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C	-50 °C+250 °C

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NAMUR-signal

tempera-	permissible temperature	permissible	permissible ambient temperature a	
ture class	for the electronic system	ambient	the sensor of the	
		temperature at the	VEGAWAVE	WE61/63***
		sensor of the	without	with
		VEGAWAVE	temperatu	re adapter
		WE62***		
T6	-40 °C +61 °C	-20 °C +60 °C	-50 °C+ 85 °C	-50 °C+ 85 °C
T5	-40 °C +76 °C	-20 °C +60 °C	-50 °C+100 °C	-50 °C+100 °C
T4	-40 °C +80 °C	-20 °C +60 °C	-50 °C+135 °C	-50 °C+135 °C
Т3	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C	-50 °C+200 °C
T2, T1	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C	-50 °C+250 °C

For applications requiring category-1 equipment, the media process pressure of the vibration level switches of type series VEGAWE62(*).CX***N/Z*** have to be between 0.8 bar and 1.1 bar. For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

When the vibration level switches of type series VEGAWE61(*).CX***N/Z*** and VEGAWE63(*).CX***N/Z*** are operated with higher temperatures than indicated in the table above, it shall be guaranteed by suitable measures that no ignition hazard is caused by such hot surfaces. In this case the temperature at the electronics housing shall not exceed the respective values of the table above. In the process, it shall be considered that the measuring sensor (even in case of failure) does not show any self-heating and that the operator is responsible for the safe operation of the plant regarding the pressures / temperatures of the materials used.

For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

Category-2 equipment

2- wire signall

temperature	permissible temperature	permissible ambient	permissible ambient temperature at
class	for the electronic system	temperature at the	the sensor of the
		sensor of the	VEGAWAVE WE61/63***
		VEGAWAVE	without with
		WE62***	temperature adapter
T6	-40 °C +55 °C	-40 °C +70 °C	-50 °C+ 85 °C -60 °C+ 85 °C
T5	-40 °C +70 °C		-50 °C+100 °C -60 °C+100 °C
T4	-40 °C +80 °C	-40 °C +80 °C	-50 °C+135 °C -60 °C+135 °C
Т3	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C -60 °C+200 °C
T2, T1	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C -60 °C+250 °C

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NAMUR-signal

temperature	permissible temperature	permissible ambient	permissible ambie	ent temperature at
	for the electronic system			or of the
		sensor of the	VEGAWAVE	WE61/63***
		VEGAWAVE	without	with
		WE62***	temperati	ure adapter
T6	-40 °C +61 °C	-40 °C +70 °C	-50 °C+ 85 °C	-60 °C+ 85 °C
T5	-40 °C +70 °C	-4 0°C +80 °C	-50 °C+100 °C	-60 °C+100 °C
T4	-40 °C +80 °C	-40 °C +80 °C	-50 °C+135 °C	-60 °C+135 °C
T3	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C	-60 °C+200 °C
T2, T1	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C	-60 °C+250 °C

When the vibration level switches of type series VEGAWAVE WE61(*).CX***N/Z*** and VEGAWAVE WE63(*).CX***N/Z*** are operated with higher temperatures than indicated in the table above, it shall be guaranteed by suitable measures that no ignition hazard is caused by such hot surfaces. In this case the temperature at the electronics housing shall not exceed the respective values of the table above. In the process, it shall be considered that the measuring sensor (even in case of failure) does not show any self-heating and that the operator is responsible for the safe operation of the plant regarding the pressures / temperatures of the materials used.

For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

Electrical data 2- wire signal

Supply and signal circuit (terminals 1 [+], 2 [-] in the electronic compartment, for the 2-cell enclosure version in the terminal compartment)

Type of protection Intrinsic Safety Ex ia IIC For connection to a certified intrinsically safe circuit.

Maximum values:

 $U_i = 30 \text{ V}$

 $I_i = 131 \text{ mA}$

 $P_i = 983 \text{ mW}$

C_i negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*).CX***Z3/5**, C_{icore/core} = 58 pF/m,

Cicore/screen = 270 pF/m,

 $L_{\rm i}$ negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*).CX***Z3/5**, $L_{\rm i'}$ = 0.55 $\mu H/m$

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Maximum values:

Electrical data NAMUR-signal

Supply and signal circuit (terminals 1 [+], 2 [-] in the electronic compartment, for the 2-cell enclosure version in the terminal compartment)

Type of protection Intrinsic Safety Ex ia IIC For connection to a certified intrinsically safe circuit.

 $\begin{array}{l} U_i = 20 \text{ V} \\ I_i = 103 \text{ mA} \\ P_i = 516 \text{ mW} \\ C_i \text{ negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*).CX***Z3/5**, <math>C_{i'core/core} = 58 \text{ pF/m}, \\ C_{i'core/screen} = 270 \text{ pF/m}, \\ L_i \text{ negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*).CX***Z3/5**, <math>L_{i'} = 0.55 \text{ } \mu\text{H/m} \end{array}$

The metal elements of the vibration level switches VEGAWAVE are electrically connected to the earth terminals.

The intrinsically safe supply and signal circuit is safely electrically isolated from elements that may be earthed.

Changes compared to previous issue:

Update to newest standard versions of EN 60079-0, EN 60079-11, EN 60079-26.

In addition, the certificate PTB 17 ATEX 2015 X issue 0 are integrated in the certificate PTB 17 ATEX 2014 X issue 1, IECEx PTB 07.0048 X issue 2.

This invalidates the PTB 17 ATEX 2015 X issue 0 certificate.

Modification of the temperature tables.

(16) Test Report PTB Ex 23-21051

(17) Specific conditions of use

1. When used as a category-1 equipment, the vibrating level switch VEGAWAVE, type code WE6*(*).CX***N/Z***, which include the material aluminum, shall be installed in such a way that sparking as a result of impact or friction between aluminum and steel (with the exception of stainless steel if the presence of rust particles can be excluded) is excluded.

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- 2. The vibration level switch VEGAWAVE with plastic enclosure, with metal enclosure with display window as well as coated sensors, carrying cable or distance pipe include surfaces that can become charged electrostatically (note warning label).
- 3. When used as catagory-1 or category-1/2 equipment, the vibration level switch VEGAWAVE shall be connected to the equipotential bonding conductor (contact resistance ≤1MΩ) (e.g. using the earthing terminal) in order to prevent metal elements from being charged electrostatically.
- 4. The vibration level switch VEGAWAVE shall be installed in such a way that 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 cable and distance pipes exceeding the length of 3 m.
- 5. For applications where equipment of category 1 or category 1/2 is required, all parts of the vibration level switch VEGAWAVE which are in contact with the medium must only be used in such media, against which they are sufficiently resistant.
- 6. Further examinations showed, that the vibrating level switch VEGAWAVE, type code WE6*(*).CX***N/Z*** may also be used as category-1/2 equipment in hazardous areas which deviate from the atmospheric conditions (0.8 bar...1.1 bar and -20°C ...+60°C). For permissible operating temperatures and pressures for the operation reference is made to the manufacturer's specifications. In this process, it shall be considered that the measuring sensors (even in case of fault) do not show any self-heating and that the owner is responsible for the safe operation of the system as regards the pressures/temperatures of the media used.
- 7. The capacitance measurements at the measuring point identification signs resulted in the following values (measured without grounding):

Pos.	Description	Dimension and area	capacitance in pF
1	Metal type label with key ring	45 mm x 23 mm= 1035 mm ²	21
2	Metal type label with key ring	100 mm x 30 mm= 3000 mm ²	52
3	Metal type label with key ring	73 mm x 47 mm = 3431 mm ²	61

The measuring point identification plate must be connected to the ground connection using the accessories supplied. To ensure that this connection is always present, it must be checked at regular intervals

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(18) Essential health and safety requirements

On behalf of PTB:

Direktor und Pro

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, February 27, 2023

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EU-TYPE-EXAMINATION CERTIFICATE (1)

(Translation)

- (2)Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - Directive 2014/34/EU
- (3) EU-Type Examination Certificate Number:

(5)

Manufacturer:

PTB 17 ATEX 2014 X

Issue: 00

Vibration level switch, type series VEGAWAVE WE6*(*).CX***Z*** (4) Equipment:

VEGA Grieshaber KG Am Hohenstein 113, 77761 Schiltach, Germany (6) Address:

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the (7) documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment 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 Test Report PTB Ex 17-26114.

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

EN 60079-0:2012+A11:2013

EN 60079-11:2012

EN 60079-26:2015

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and construction of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

Ex II 1 G oder 1/2 G oder 2 G Ex ia IIC T6...T1 Ga, Ga/Gb, Gb

Konformitätsbewertungsstelle, Sektor Explosionsschutz On behalf of PTB:

Braunschweig, October 27, 2017

Dr.-Ing. F. Lienes Direktor und Profess

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(13)

SCHEDULE

(14) EU-Type Examination Certificate Number PTB 17 ATEX 2014 X, Issue: 00

(15) Description of Equipment

The vibration level switches of type series VEGAWAVE WE6*(*).CX***Z*** are used for level measurement in potentially explosive gas atmospheres requiring category-1 or category-1/2 or category-2 equipment.

They consist of an electronics housing with the corresponding evaluation electronic, the process connectors and the sensor.

Extract from the type key

* = 1, 2, 3	ab	c	de	f	g	ħ	ī
ab: Area of validity							

ab: Area of validity

VECAMAVE WES*

CX = ATEX II 1G, 1/2G, 2G Ex ia IIC T6..T1 Ga, Ga/Gb, Gb

CK = ATEX II 1G, 1/2G, 2G Ex ia IIC T6..T1 Ga, Ga/Gb, Gb +

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

CI = IECEX Ex ia IIC T6 Ga Ga/Gb, Gb

c: Adapter / process temperature / cable

de: Process connection / material

f: Electronics

Z = 2- wire signal

g: Enclosure / protection

h: Cable gland / plug connection

i: Additional equipment

The full type code can be found in the safety instructions.

Category-1 equipment

The vibration level switches are installed in potentially explosive atmospheres requiring category-1 equipment.

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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



Category-1/2 equipment

The electronics housing is installed in potentially explosive atmospheres requiring category-2 equipment. The process connectors are installed in the partition separating areas requiring category-2 or category-1 equipment. The sensor is installed in potentially explosive atmospheres for category-1 equipment.

Category-2 equipment

The vibration level switches are installed in potentially explosive atmospheres requiring category-2 equipment.

For the relationship between the temperature class and the maximum permissible temperature at the sensor and the maximum permissible ambient temperature for the evaluation electronic, reference is made to the following table.

Category-1 equipment

temperature class	permissible temperature for the electronic system	permissible ambient temperature at the sensor
Т6	-20 +39 °C	-20 +39 °C
T5	-20 +51 °C	-20 +51 °C
T4, T3, T2, T1	-20 +60 °C	-20 +60 °C

For applications requiring category-1 equipment, the media process pressure has to be between 0.8 bar and 1.1 bar. The permissible ambient temperatures specified are based on the 80% rule in section 6.4.2 of EN 1127-1. For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

Category-1/2 equipment

temperature class	permissible temperature for the electronic system	permissible ambient temperature at the sensor of the VEGAWAVE WE62***	
			temperature adapter -
T6	-40 °C +55 °C	-20 °C +54 °C	-50 °C+ 85 °C -50 °C+ 85 °C
T5	-40 °C +70 °C	-20 °C +60 °C	-50 °C+100 °C -50 °C+100 °C
T4	-40 °C +80 °C	-20 °C +60 °C	-50 °C+135 °C -50 °C+135 °C
T3	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C -50 °C+200 °C
T2, T1	-40 °C +80 °C	-20 °C +60 °C	-50 °C+150 °C -50 °C+250 °C

For applications requiring category-1 equipment, the media process pressure of the vibration level switches of type series VEGAWAVE WE62(*).CX***Z*** have to be between 0.8 bar and 1.1 bar. For the type series VEGAWAVE WE62(*).CX***Z*** the specified permissible ambient temperatures are based on the 80% rule in section 6.4.2 of EN 1127-1. For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

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When the vibration level switches of type series VEGAWAVE WE61(*).CX***Z*** and VEGAWAVE WE63(*).CX***Z*** are operated with higher temperatures than indicated in the table above, it shall be guaranteed by suitable measures that no ignition hazard is caused by such hot surfaces. In this case the temperature at the electronics housing shall not exceed the respective values of the table above. In the process it shall be considered that the measuring sensor (even in case of failure) does not show any self-heating and that the operator is responsible for the safe operation of the plant regarding the pressures / temperatures of the materials used.

For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.

Category-2 equipment

temperature class	permissible temperature for the	permissible ambient temperature at the	permissible ambient temperature at the sensor of the
Ciaso	electronic system	sensor of the	VEGAWAVE WE61/63***
	•	VEGAWAVE WE62***	without with
			temperature adapter
T6	-40 °C +55 °C	-40 °C +70 °C	-50 °C+ 85 °C -60 °C+ 85 °C
T5	-40 °C +70 °C	-40 °C +80 °C	-50 °C+100 °C -60 °C+100 °C
T4	-40 °C +80 °C	-40 °C +80 °C	-50 °C+135 °C -60 °C+135 °C
T3	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C -60 °C+200 °C
T2, T1	-40 °C +80 °C	-40 °C +80 °C	-50 °C+150 °C -60 °C+250 °C

When the vibration level switches of type series VEGAWAVE WE61(*).CX***Z*** and VEGAWAVE WE63(*).CX***Z*** are operated with higher temperatures than indicated in the table above, it shall be guaranteed by suitable measures that no ignition hazard is caused by such hot surfaces. In this case the temperature at the electronics housing shall not exceed the respective values of the table above. In the process it shall be considered that the measuring sensor (even in case of failure) does not show any self-heating and that the operator is responsible for the safe operation of the plant regarding the pressures / temperatures of the materials used.

For the process conditions without explosive mixtures, reference shall be made to the specifications provided by the manufacturer.





Electrical data

Supply and signal circuit (terminals 1 [+], 2 [-] in the electronic compartment, for the 2-cell enclosure version in the terminal compartment)

Type of protection Intrinsic Safety Ex ia IIC For connection to a certified intrinsically safe circuit.

Maximum values:

 $U_{i} = 30 \text{ V}$

 $I_i = 131 \text{ mA}$

 $P_i = 983 \text{ mW}$

 C_i negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*).CX***Z3/5**, C_i core/core = 58 pF/m,

C_{i'core/screen} = 270 pF/m,

 $L_{\rm i}$ negligibly low or in the version with fixed connected cable, type series VEGAWAVE WE6*(*) CX***Z3/5**, $L_{\rm i'}$ = 0.55 $\mu H/m$

The metal elements of the vibration level switches VEGAWAVE are electrically connected to the earth terminals.

The intrinsically safe supply and signal circuit is safely electrically isolated from elements that may be earthed.

(16) Test Report PTB Ex17-26114

(17) Specific conditions of use

- 1) When used as a category-1 equipment, the vibration level switches of type series VEGAWAVE WE6*(*).CX***Z***, which include the material aluminum, shall be installed in such a way that sparking as a result of impact or friction between aluminum and steel (with the exception of stainless steel if the presence of rust particles can be excluded) is excluded.
- 2) The vibration level switches with plastic enclosure, with metal enclosure with display window as well as coated sensors, carrying cable or distance pipe include surfaces that can become charged electrostatically (note warning label).
- 3) When used as catagory-1 or category-1/2 equipment, the vibration level switches VEGAWAVE shall be connected to the equipotential bonding conductor (contact resistance ≤ 1MΩ) (e.g. using the earthing terminal) in order to prevent metal elements from being charged electrostatically.
- 4) The vibration level switches VEGAWAVE shall be installed in such a way that 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 cable and distance pipes exceeding the length of 3 m.

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- 5) For applications where equipment of category 1 or category 1/2 is required, all parts of the vibration level switches VEGAWAVE which are in contact with the medium must only be used in such media, against which they are sufficiently resistant.
- 6) Further examinations showed, that the vibration level switches of type series VEGAWAVE WE61(*).CX***Z*** and VEGAWAVE WE63(*).CX***Z*** may also be used as category-1/2 equipment in hazardous areas which deviate from the atmospheric conditions (0.8 bar...1.1 bar and -20 °C ...+60 °C). For permissible operating temperatures and pressures for the operation reference is made to the manufacturer's specifications. In this process, it shall be considered that the measuring sensors (even in case of fault) do not show any self-heating and that the owner is responsible for the safe operation of the system as regards the pressures / temperatures of the media used.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz On behalf of Past Little Constitution Braunschweig, October 27, 2017

0.00 111

Direktor un