



Vibro level indicator Level limit switches for bulk goods

Rhombus vibration rod

robust single rod - compact and versatile

VF1.

Operating instruction



Index	Page
Safety instructions Use of the device	02
Data of manufacturer Receiving department and storage Application Function	03
Information for use Technical data	03
Electrical connection and data High alarm sensor Low alarm sensor	04
Versions/Dimensions	05
Setting of sensitivity Load for vibration rod	06
Protection against heavy load Posibilities for installation	06
Allowed temperatures Bulk solids temperature up to 150 °C	07
Protection against bulk solids crashing down	08
Protection against moisture Maintenance Disposal Returns to MOLLET	08
Supply and evaluation device VF-VEC8-B22	09







Please, read and obey these safety instructions and the complete operating manual.

1. Safety instructions

- 1.1 The installation, initial operation and maintenance must be done by a qualified expert with electrical know-how.
- 1.2 Check before installation whether the measuring device is in compliance with the specification of the point of measurement as process and ambient temperature as well as the measuring range.
- 1.3 Use in potentially explosive atmospheres only devices with 🖾 identification marking.
- 1.4 For the electrical connection take notice of the local and statutory rules and regulations and/or the VDE 0100.
- 1.5 Consider the data of the name plate on the device.
- 1.6 A fuse (max. 4 A) and a main switch have to be connected in series to the voltage supply.
- 1.7 Switch off the voltage supply before you open the measuring devive (dangerous voltages in case of contact).
- 1.8 Check the cable entry, cable gland and clamping nut, to see if they are sitting correctly and are sealed.
- 1.9 Put the device into operation only when the unit is closed and the cover sealing is intact.
- 1.10 Changes and repairs of the device are allowed only in so far as it is permitted in the operating instructions.



Prior to the use of the device in potentially explosive atmospheres please, read and obey the

Special conditions and guidance for safe use

in the attached

Explosions protection information

and observe the operating instruction.

2. Use of the device

2.1 Intended use

- The device is used as a level limit switch for bulk solids in silos, bins and so on.

2.2 Normal operation

- Please operate the measuring device only according the intended use.
- Use the measuring device only within the specified temperature ranges for process and ambience.
- Protect the electronics compartment against pollution.
- In case the measuring device becomes damaged, please stop operation immediately.

2.3 Improper use

- Ignoring safety regulations and operating instruction.
- Operation of the measuring device in inappropriate use.
- Installation of spare parts that are no original parts.
- Removal, addition or modification of components as far as it is not described in the documentation of the manufacturer.
- Violation of applicable standards and laws.





3. Data of manufacturer

Manufacturer	MOLLET Füllstandtechnik GmbH
Address	Industriepark RIO 103 74706 Osterburken Germany
Name of part	MOLOSvibro Vibro level indicator
Туре	VF1

5. Application (intended use)

The MOLOSvibro of the VF1. series is intended for the use as level limit switch in silos and vessels.

For all bulk solids with a minimum density of

0.01 t/m³.

For application in all industry sectors.

7. Information for use

Please obey the following for the use of the Vibro level indicator:

- Switch point dependent of bulk density (t/m³; kg/l):
- -- with heavy bulk solids only the tip of the rod has to be covered for damping the vibration.
- - with light bulk solids the complete rod has to be covered for damping the vibration.
- In order to keep the ambient temperature of the PCB below +70°C please
- - protect the housing from direct sunlight by installing a sun shield.
- protect the housing against temperature transfer from the silo in cases the process temperature exceeds 70°C by installation of a heat barrier between the enclosure and the bin wall or use the high temperature option E1 / E2 /E3.
- The measuring device must not be mounted in or near the filling stream. The falling bulk solids could damage the probe.

4. Receiving department and storage

4.1 Receipt of goods

- Please check whether packaging or content are damaged.
- Please check whether the supplied goods are incomplete or do not comply the requirements as set out in your order.

4.2 Storage

- For storage and transportation the measuring device has to be packed shock-resistant.
- Store the device at a place protected against moisture and dust.
- Take care that the probe will not be bended.
- Temperature range for storage -40 °C ... +85 °C

6. Function

- Oscillation of the Rhombus vibration rod with a resonance frequency of approx. 285 Hz is stimulated by the electronic.
- As soon as the vibration rod has been covered by bulk solids, the oscillation will be damped.
- The electronic detects the damping and switches the relay signal.
- If the filling level sinks below the vibration rod, the rod starts vibrating with its resonance frequency again and the relay switches back.

8. Technical data

Material Rectangular-housing Process connection and probe Rhombus vibration rod Suspension cable sheath	Aluminium, RAL7001 Stainless steel 1.4301 / 304 Stainless steel 1.4301 / 304 Polyurethane		
Process connection R3	R11/2 EN 10226 or N3 11/2" NPT		
Ambient temperature with separate housing	-40 °C +70 °C -40 °C +80 °C T a		
Process temperature VF12, VF13 VF15 VF12, VF13 high temperature E1	-40 °C +80 °C -40 °C +70 °C -40 °C +150 °C -0.95 bar 10 bar P (Process)		
Process pressure	-0.95 bar 10 bar P (Process		
Minimum density of bulk solids	0.01 kg/l (t/m ³)		
Response delay			
for damping for start oscillation	1 second 2 to 5 seconds		
Cable entry	Gland 2xM20x1,5		
Type of protection with separate rectangular-housing	IP66/IP67 acc. DIN EN 60529 IP65 acc. DIN EN 60529		
Maintenance	none		
Maximum load for the end of the vibration rod	1000 N vertical (V) 250 N horizontal (H)		
Maximum tensile force at suspension cable of type VF15	2000 N		
Installation position VF12, VF13 VF15	any vertical		

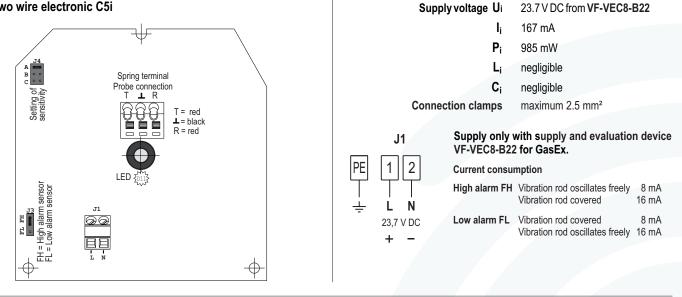
Subject to modification.





Electrical connection and data 9.

Two wire electronic C5i

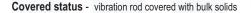


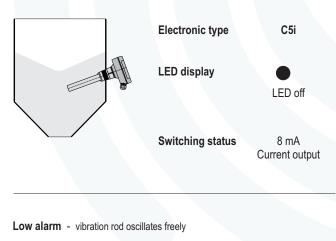
10. High alarm sensor FH (factory setting)

MOLOSvibro level indicator of the VF1. series are configurated for high level alarm in the factory setting. The function can be changed with a jumper on the electronic board. The switching status is indicated by a LED on the electronic board, like it is explained below.

11. Low alarm sensor FL (jumper repositioned)

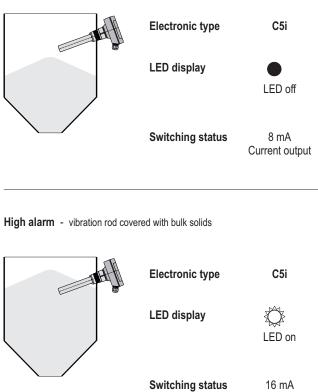
MOLOSvibro level indicator of the VF1. series can be used for low level alarm with a changed factory setting. The function can be changed with a jumper on the electronic board. The switching status is indicated by a LED on the electronic board, like it is explained below.





Electronic type C5i LED display LED on Switching status 16 mA Current output Current output



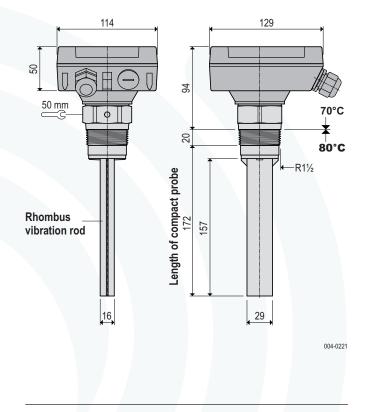




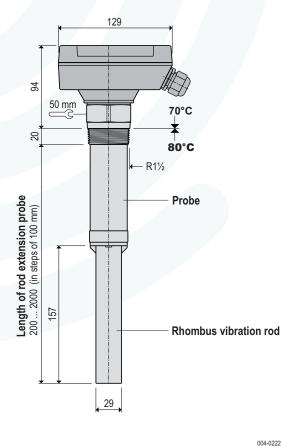


12. Versions/Dimensions

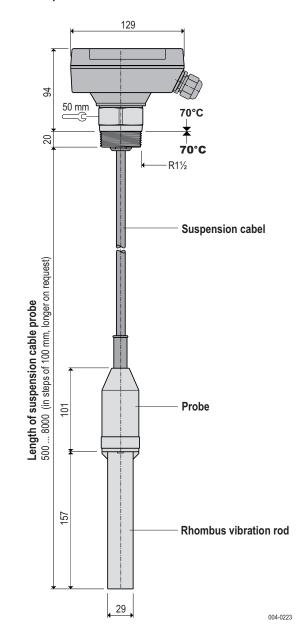
12.1 VF12 Compact sensor



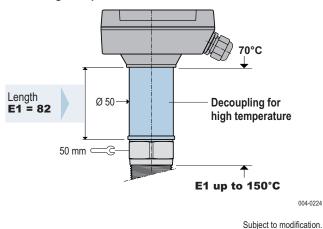
12.2 VF13 Rod extension sensor



12.3 VF15 Suspension cable sensor



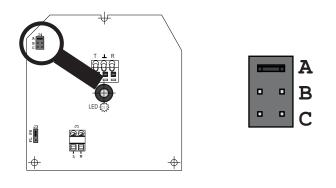
12.4 E1 High temperature



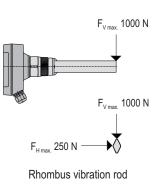




13. Setting of sensitivity



14. Load for vibration rod



Due to the special shape of the Rhombus vibration rod, it is very robust and able to resist high forces up to 1000 N in vertical direction.

Adjustment by jumper at **A-B-C**

- Position A: highest sensitivity level for light bulk solids with a density above 0.02 kg/l
- Position **B**: standard sensitivity level (factory setting) sufficient for most bulk solids.
- Position C: lowest sensitivity level for heavy materials with high densities which may form a deposit on the vibrating rod. Light materials can not be detected at this setting!

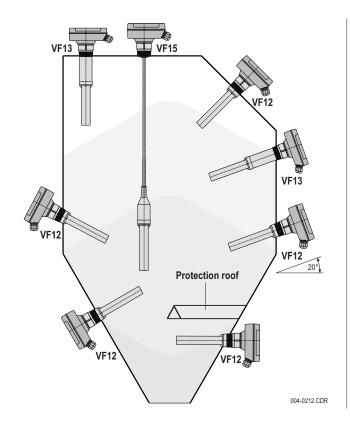
15. Protection against heavy load



If needed, a protection roof or a stable deflector has to be installed inside the container, in order to protect the probe and the rod against impinging bulk solids.

Between protection roof and the probe has to be enough space that bulk solids could penetrate but not jam.

16. Possibilities for installation



Side mounting or vertical mounting:

- VF12 and VF13 can be mounted either from the side or vertical.
- In order that bulk solids can flow off easily
- it is recommended to screw the measuring device slightly downwards (approx. 20°)
- - the blade of the probe has to be oriented vertically. Correct alignment of the blade is given as soon as the two marks in the mounting socket point up and down.
- The measuring device has to be mounted in such a way that the filling stream cannot damage it.
- In case the filling stream reaches the probe nevertheless, it has to be protected by a suitable protection roof.
- If the probe is used as empty indicator in the lower area of bins/silos with heavy bulk solids, a protection roof has always to be installed.
- VF15 is suitable for top mounting only.
- A suitable sealing, (like Teflon tape), must be applied onto the thread and the **VF** has to be screwed into the provided socket with a 50 mm open end wrench.

Attention: Do not screw by turning the housing!

06





17. Allowed temperatures

Ambient temperature at the probe (process temperature)

T_(process) -40°C ... +80°C

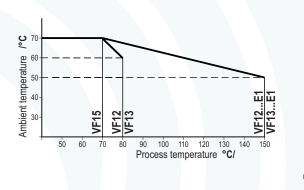
Ambient temperature at the electronic housing

Ta -40°C ... (+60°C) +70°C

Due to the process temperature of 80 °C reduced maximum allowed ambient temperature at the electronic housing

Maximum allowed ambient temperature at the electronic housing is dependent of the process temperature.

(see diagram)

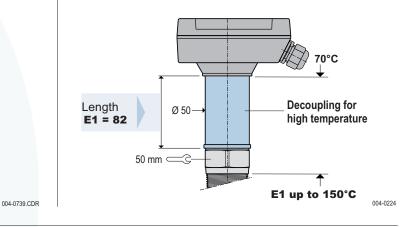


18. Bulk solids temperatures up to 150 °C

The high temperature options ${\rm E1}$ enables the use of the level indicators for bulk solids temperatures up to 150 °C.

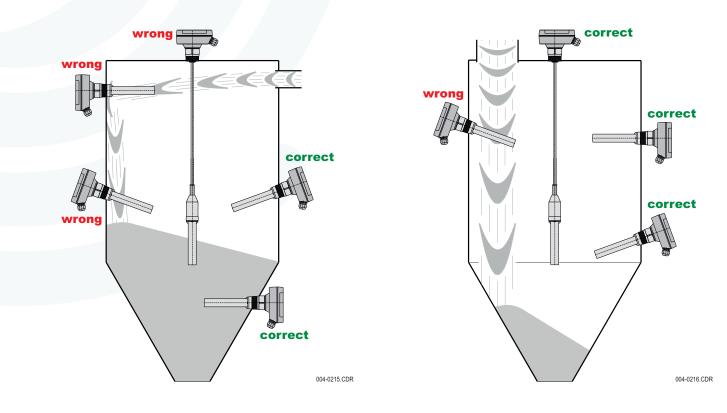
 in order to protect the electronic against overheating by heat transfer from the process, a decoupling for high temperatur E1 is installed between probe and electronic housing.

- use for process temperatures above 80 °C only level indicators with the high temperature option.
- due to high process temperatures the maximum allowed ambient temperature at the electronic housing is reduced (see diagram)
- please mind for exchange of electronics that only PCBs with the marking "Special Model HT" may be used.



19. Protection against bulk solids crashing down upon the rod

Level indicators must not be affected by flying bulk goods particles e.g. from injection pies, filling pipes or down pipes. Therefore the bulk solids stream should be directed or redirected accordingly, or the level indicator should be placed so that bulk solids cannot impact directly onto the probe and vibration rod.



Subject to modification.





20. Protection against moisture by alignment of cable glands



The cable glands must always point downwards to prevent moisture seeping inside the housing. If the housing is not in the correct position after the probe has been firmly screwed into the bin wall, proceed as follows:

- remove the cover of the housing
- use a screw driver to loosen the screw in the center of the PCB
- turn the housing into the correct position so that the cable glands are pointing downwards
- tighten the screw in the center of the PCB, torque 3Nm
- close the cover of the housing.

Cable ducts which are not used have to be sealed!

21. Maintenance

The Vibro level indicators require no maintenance.

- For applications with materials that are a little bit sticky we recommend to clean the vibrating blade of the instrument in certain periods of time.
- If the instruments are exposed to corrosive atmosphere, they must be inspected in certain periods of time regarding corrosion of probe and enclosure in order to ensure the tightness of the instruments.

22. Disposal

- Level indicator VF can be recycled.
- Disposal of the VF is subject to the environmental legislation of the respective country in effect for the operator's premises.

23. Returns to MOLLET

23.1 Remove all adherent material residues of filling material from the measuring device. Be aware of seal grooves and cracks where material residues could stick.

In particular if the bulk goods or liquids has been dangerous to health,

e. g. flammable, toxic, caustic or cancer-producing.

23.2 Furthermore please state:

- Chemical and physical characteristics of the bulk goods or liquid
- Description of the application
- Description of the failure occurred
- Operating time of the measuring device.



Supply and evaluation device **VF-VEC8-B22**

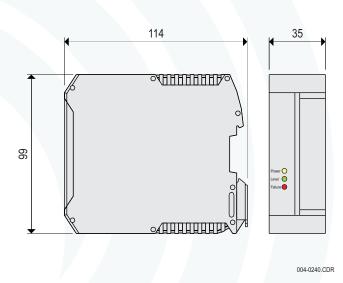


Application (intended use)

The supply and evaluation device type **VF-VEC8-B22** is intended for the use as power supply for **MOLOSvibro** level indicators that are used in potentially explosive gas atmospheres.

It detects and evaluates the damping of the vibration rod, switches the signal relay and diagnoses a short circuit or broken cable at the connection to the probe and switches the failure relay.

Dimensions

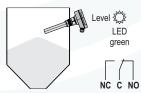


High and low alarm sensor

The signal relay of the supply and evaluation device **VF-VEC8-B22** has a separate switching logic, that is demonstrated below. The function can be changed with a jumper on the two wire electronic board **C5i** installed in the **MOLOSvibro** sensor housing.

High alarm sensor FH (factory setting)

Free status Vibration rod oscillates freely

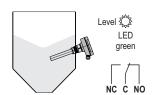


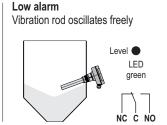
Vibration rod covered with bulk solids

High alarm

Low alarm sensor FL (jumper repositioned)

Covered status Vibration rod covered with bulk solids





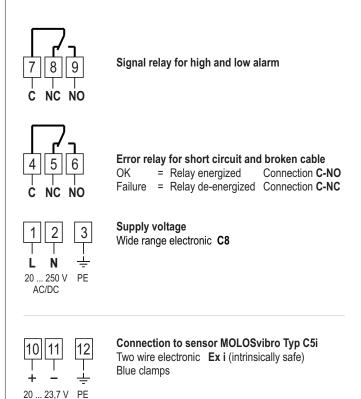
NC C NO

DC

Technical data

Material	Housing	Polyamid light gray		
		Polyamid, light gray		
Ambient temperat	ure	-20 °C +60 °C	Ta	
Supply voltage		20 250 V AC/DC < 3 VA Supply		
Power consumpti	on	≤3 VA Supp .		
Connetion to sensor Supply voltage Connection cable light grey Switching threshold		Ex i \leq 23.7 V DC 2-wire, maximum 35 Ω per wire 13 mA		
Signal relay (potential free) Error relay (potential free)		change-over contact (SPDT) change-over contact		
Capacity of conta	Capacity of contact AC DC DC		6 A / 250 V ≤ 6 A at 24 V / 0,5 A at 48 V minimum 24 V / 100 mA	
Connection clamps		maximum 2.5 mm ²		
Type of protection		IP20 acc. DIN EN 6	0529 IP	
Ignition protection type		ⓑ II (1) G [Ex ia Ga] IIB ⓑ II (1) D [Ex ia Da] IIIC		
LED display	Power yellow Level green Failure red			
Maintenance		none		
Installation		Top hat rail assembly (35 mm)		
Installation position		any		

Electrical connection



MOLLET D-74706 Osterburken Tel. +49 6291 6440-0 Fax +49 6291 9846

Subject to modification.



EUKE-VF

Seite/Page 1 von/of 1

EU-Konformitätserklärung EU-Declaration of Conformity

Wir/We

MOLLET Füllstandtechnik GmbH

Industriepark RIO 103 D-74706 Osterburken Tel. 06291 64400 Fax 06291 9846

erklären in alleiniger Verantwortung, dass das Produkt: declares under our sole responsibility, that the product:

Vibro-Füllstandanzeiger / Vibro level indicator

Schwingstab-Füllstandanzeiger / Vibration rod level indicator

Тур/Туре **VF**...

den folgenden Europäischen Richtlinien entspricht: conforms with the following European directives:

EMV-Richtlinie Niederspannungsrichtlinie

Angewandte harmonisierte Normen oder normative Dokumente: Applied harmonized standards or normative documents

DIN EN 61326-1:2013

DIN EN 61010-1:2020

Und die Geräte mit 🐵 - Kennzeichnung entsprechen zusätzlich der folgenden Europäischen Richtlinie: And the devices with 🐵 - marking conform additional with the following European directive:

EMC directive

Low voltage directive

ATEX-Richtlinie

ATEX directive

2014/34/EU

2014/30/EU

2014/35/EU

Je nach Ausführungsvariante angewandte harmonisierte Normen oder normative Dokumente: Depending on the design applied harmonized standards or normative documents:

DIN EN IEC 60079-0:2019

DIN EN 60079-31:2014

EU-Baumusterprüfbescheinigungsnummer: EU-Type Examination Certificate:

IBExU19ATEX1052

Ausgestellt von:. Issued by:

Qualitätssicherung: Quality assurance: IBExU Institut für Sicherheitstechnik GmbH, 09599 Freiberg (0637)

TÜV NORD CERT GmbH, 30159 Hannover (0044)



Osterburken, den 20.03.2021

Wolfgang Hageleit Geschäftsführer / Managing director

Diese Erklärung darf nur unverändert weiterverbreitet werden. This declaration is only allowed to hand out in unchanged form.



Vibro level indicators Level limit switches for bulk goods



MOLO



Explosion protection information

and supplement to the operating instructions

Type plate de	tails with option B11 ଜିଣ୍ଡs+Dust ଝି×	
	Manufacturer and address CE sign with the number of the "Notified Body" which is involved in the production control phase EU-type examination certificate number	
Model designation ——— Unique device serial number	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	
Order number	Month and year of delivery — DustEx identification — GasEx identification — Ambient temperature (process temperature) — Design of the devices suitable for pressures in the vessel indicated here.	







Marking in accordance with ATEX and DIN EN IEC 60079-0

Vibro level indicator for use at the boundary from zone 20 to zone 21.

	🐼 II 1/2 D Ex ia IIIC TX Da/Db			
Equivalent to	valid ATEX-Product-Directive			
Equipment group	II = everything except mining			
Equipment category	Category 1 for zone 20, 21 and 22 Category 2 for zone 21 and 22			
I = Level indicators which are instal	s, lled on the boundary between different zones			
Type of explosive atr	mosphere D = Dust			
the Ex symbol acco	ording to DIN EN IEC 60079-0			
i = Protection by in	ntrinsic safety			
a = Device with "ve	ery high" protection standard for zone 20, 21 and 22			
IIIC for flammable conductive dust, flammable non-conductive dust and flammable fibres and flyings				
TX maximum surface	ce temperature			
Equipment Protecti	ion Level (EPL)			
D = Dust - Type of	f explosive atmosphere			
	ery high level of protection" for use in potentially explosive atmospheres where in			
	igh level of protection" for use in potentially explosive atmospheres where in			

Vibro level indicator for use at the boundary from zone 0 to zone 1.

😣 II 1/2 G Ex ia IIB T4 Ga/Gb
Equipment category Category 1 for zone 0, 1 and 2 Category 2 for zone 1 and 2
I = Level indicators, which are installed on the boundary between different zones
Type of explosive atmosphere G = gas
the Ex symbol according to DIN EN 60079-0
i = Protection by intrinsic safety
a = Device with "very high" protection standard for zone 0, 1 and 2
IIB for all flammable gases except hydrogen, acetylene or carbon disulphide
Temperature class T4 = 135 °C
Equipment Protection Level (EPL)
G = Gas - Type of explosive atmosphere
a = Device with "very high level of protection" for use in potentially explosive atmospheres where in
b = Device with "high level of protection" for use in potentially explosive atmospheres where in

The "very high" protection standard of the devices permits although the use complete in zone 20 and zone 0. Please request further information if needed.



Vibro level indicator VF12/VF13



Order code VF12A1B11C5i... and VF13A1B11C5i...

Marking:

II 1/2 D II 1/2 G



Equipment category appropriation by

zones

Vibro level indicator for use at the boundary from zone 20 to zone 21 and for use at the boundary from zone 0 to zone 1.

Ambient temperatures Ta

The ambient temperature **Ta** defines the maximum operating temperature of the indicators. Inside the vessel this is process temperature (the air or the bulk goods temperature) nearby the device.

Maximum surface temperature T, TX

The maximum surface temperature T means the hottest point at the equipment. The device equates to temperature class [T 4]

Note:

Probe and vibration rod produce no increase of temperature, but they are able to take high temperatures from inside of the vessel and forward it.

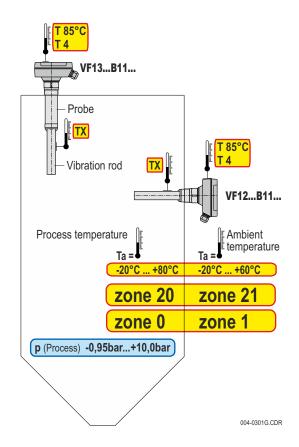
Due to this, the surface temperature **TX** has to be determined according to the process temperature (temperature of bulk solids or ambient) inside of the vessel.

Pressure, vacuum

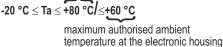
Design of the devices is suitable for indicated pressures in the vessel.

These pressures are outside of the range for atomospheric conditions defined in the guidance to the ATEX-Product-Directive.

Füllstandtechnik	Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	IBExU19ATEX1053X
_{Тур} VF1.А1 <mark>В11</mark> С5і	Ex ia IIIC TX Da/Db II 1/20 Ex ia IIB T4 Ga/Gb	Ui = 23,7 V DC li = 167 mA
s# 1234567890	-20 °C ≤ Ta ≤ +80/+60 °C	Pi = 985 mW
A Nr. 1234567890 03/	19 (Process) -0,95bar+10,0bar	



maximum authorised process temperature



MOLLET D-74706 Osterburken Tel. +49 6291 6440-0 www.mollet.de Explosion protection information 06/21 © by MOLLET VF1-EIG-03 03





Order code VF15A1B11C5i...

Marking: II 1/2 D II 1/2 G



Equipment category appropriation by

zones

Vibro level indicator for use at the boundary from zone 20 to zone 21 and for use at the boundary from zone 0 to zone 1.

Ambient temperatures Ta

The ambient temperature **Ta** defines the maximum operating temperature of the indicators. Inside the vessel this is process temperature (the air or the bulk goods temperature) nearby the device.

Maximum surface temperature T, TX

The maximum surface temperature T means the hottest point at the equipment. The device equates to temperature class [T 4]

Note:

Probe and vibration rod produce no increase of temperature, but they are able to take high temperatures from inside of the vessel and forward it.

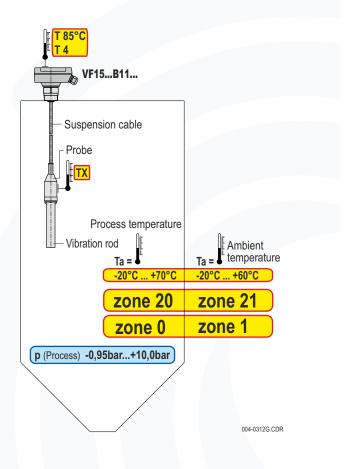
Due to this, the surface temperature **TX** has to be determined according to the process temperature (temperature of bulk solids or ambient) inside of the vessel.

Pressure, vacuum

Design of the devices is suitable for indicated pressures in the vessel.

These pressures are outside of the range for atomospheric conditions defined in the guidance to the ATEX-Product-Directive.





maximum authorised process temperature

maximum authorised ambient temperature at the electronic housing



Vibro level indicator VF12/VF13



Inside high process temperature, outside ambient temperature

Order code VF12A1B11C5i...E1... and VF13A1B11C5i...E1...

Marking:

II 1/2 D II 1/2 G



Equipment category appropriation by

zones

Vibro level indicator for use at the boundary from zone 20 to zone 21 and for use at the boundary from zone 0 to zone 1.

Ambient temperatures Ta

The ambient temperature **Ta** defines the maximum operating temperature of the indicators. Inside the vessel this is process temperature (the air or the bulk goods temperature) nearby the device.

Maximum surface temperature T, TX

The maximum surface temperature T means the hottest point at the equipment. The device equates to temperature class T4

Note:

Probe and vibration rod produce no increase of temperature, but they are able to take high temperatures from inside of the vessel and forward it.

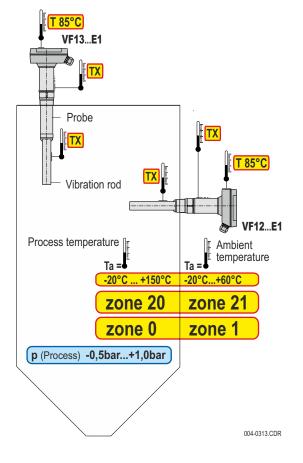
Due to this, the surface temperature **TX** has to be determined according to the process temperature (temperature of bulk solids or ambient) inside of the vessel.

Pressure, vacuum

Design of the devices is suitable for indicated pressures in the vessel.

These pressures are outside of the range for atomospheric conditions defined in the guidance to the ATEX-Product-Directive.

	Industriepark RIO 103 D-74706 Osterburken Tel. +49 62 91 64 400	IBExU19AT	EX1053X
тур VF1. А1 <mark>В11</mark> С5і <mark>Е1</mark> .		Ui = 23,7 V DC	li = 167 mA
S# 1234567890	-20°C ≤ Ta ≤ +150/+60°C	Pi = 985 mW	
A Nr. 1234567890 03/	19 (Process) -0,95bar+10,0bar		



maximum authorised process temperature

-20 °C \leq Ta \leq +150 °C/ \leq +60 °C

maximum authorised ambient temperature at the electronic housing

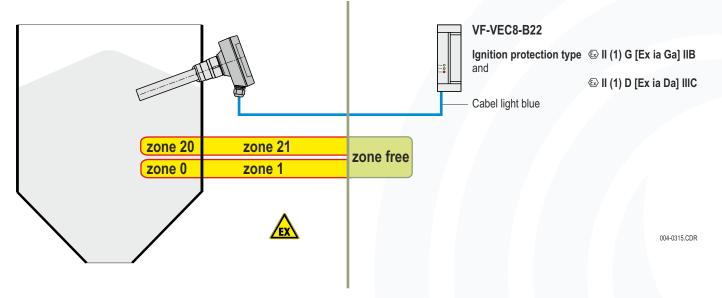






Special conditions and instructions for safe application

- 1. The installation, maintenance, initial operation, removal and repair have to be controlled resp. checked by an "authorized person" for explosion protection and has to be done according to the specifications in the operating instructions manual.
 - According to DIN EN 61010-1 a main switch for the supply and evaluation device has to be installed nearby and has to be made visible as such. It must be able to interrupt the power supply and relay circuit with this main switch.
 - For protection against surge voltages a overvoltage filter has to be installed accordingly.
- 2. For the electrical connection you have to take notice of the local and statutory requirements and/or the VDE 0100 as well as the additional requirements for the ignition protection type "i" intrinsic safety according EN 60079-14 for associated equipments without galvanic isolation.
 - The vibro level indicator is a category 1 equipment that has to be installed in such a way that sparks can not be generated by shocks onto or friction at the aluminium housing.
- 3. The power supply must be provided by the associated equipment "Supply and evaluation device VF-VEC8-B22" only.



- 4. Take notice of the specifications on the data plate.
- 5. Standards for the connection of intrinsic safe circuits according to EN 60079-14 must be observed.
- 6. The associated equipment "Supply and evaluation device VF-VEC8-B22" has to be installed in a room without potentially explosive atmosphere (control cabinet).
- 7. As soon as the device will be brought into the explosion hazardous area it has to be mounted immediately at the intended place and a cable has to be brought into the cable gland.
- 8. Please check if the cable gland have loosened during mounting process or transport. When it is loosened, it has to be fixed again with a torque of 3.75 Nm.
- 9. To secure the type of protection, the screw nut of the cable gland has to be fixed at the installation with a minimum torque of 2.7 Nm. ATTENTION! If it will be fastened too strong, the IP-protection can be affected.
- 10. The device has to be grounded and the ground connection of the device has to be installed in such a way that mechanical damage will be excluded.
- 11. The device may put into operation with built-in cap-sealing and when it is closed, only.
- 12. Remove the dust from the housing before you open it and make sure that no dust turbulences exist.
- 13. Please check position and intactness of all gaskets before you close the device.
- 14. Tightening torque of the central fixing srew: 3 Nm and of the lid screw: 3 Nm.
- 15. The maximum authorised temperatures for process (bulk solids) and ambience have to be observed.
- 16. Take notice of the requirements of DIN EN 60079-11, DIN EN 60079-17 and DIN EN 1127-1, especially regarding the dust deposits and temperatures and follow the pertinent rules and regulations.



Supply and evaluation device **VF-VEC8-B22**



Type plate details



	Manufacturer and address		number of the "Notified Body" in the production control phase
Model designation ————	Füllstandtechnik Tel. +4	iepark RIO 103 6 Osterburken 9 62 91 64 400	EU-type examination certificate number
DustEx and GasEx		IBExU09ATEX1054X IP20	Type of protection
Ambient temperature ———— (process temperature)		Power Supply 20250 V DC/AC Power Consumption 3 VA	Details to power supply of the supply and evaluation device
	S# 1234567890 03/19 A Nr. 1234567890	$ \begin{array}{ll} U_{o} = 23,7 \ V & I_{o} = 166 \ mA \\ U_{m} = 375 \ V & C_{o} = 390 \ nF \\ L_{o} = 4,3 \ mH & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Details to intrinsic safety power supply of the Vibro level indivcator
	Month and year o		
	Order number		





