



Vibranivo® 1000 / 5000

Vibration level limit switch

The universal unit for reliable level monitoring of granulated and powdered bulk goods – versatile, suitable especially for applications with high mechanical loading and measurement of bulk goods in liquids; certified for hazardous locations (gas and dust)



Vibranivo® 1000 / 5000



- Modular and simple design
- For applications with high mechanical loading
- Particularly suitable for interface measurement
- Absolutely maintenance free

Application: Vibranivo[®] probes can be used as full, demand or empty detectors in bulk good silos. They are especially suited for use in all solids which are conveyed or stored under extreme conditions as well as for interface measurement. The short fork design allows mounting in containers with very limited space. Vibranivo vibration forks are available with international certificates for applications in hazardous locations (gas and dust).

Types of Vibranivo demand, full and empty detectors:

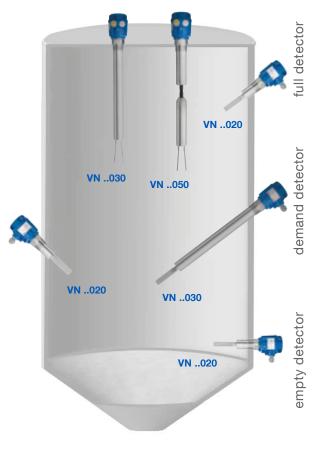
Vibranivo ..020 Short extension length, vertical, horizontal and oblique installation



Design with pipe extension, vertical and oblique installation

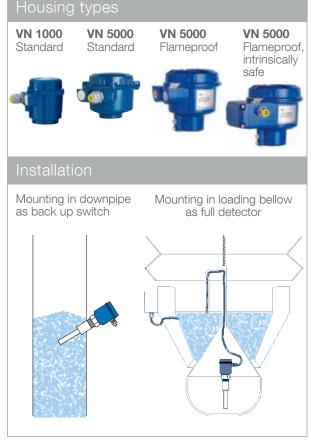
Vibranivo ..030





Technical Data

Housing	Aluminium IP66 / NEMA Type 4X		
Pressure range	-1 up to +16 bar (-14.5 up to +145 psi)		
Supply voltage/ Signal output	Relay SPDT Relay DPDT PNP 2-wire without contact 8/16mA; 4-20mA	19230V AC, 1955V DC 19230V AC, 1936V/55V DC 1850V DC 3-wire 19230V AC/DC 12,5-30/36V DC 2-wire	
Certificates	ATEX II 1D and 1/2D ATEX II 1G and 1/2G EEx ia IIC ATEX II 2G EEx de [ia] IIC, EEx d [ia] IIC FM CI. I, II, III, Div.1 Gr. A-G; Zone 0 CSA CI. I, II, III Div.1 Gr. A-G; Zone 0 TR-CU, IEC Ex, EHEDG		
Process temperature	-40°C up to +150°C (-40°F up to + 302°F)		
Sensitivity	From 50g/l (3lb/ft ^s) adjustable in 2 steps		
Process connection	R1½" conical; NPT 1½"; various flanges available		
Vibration fork/ extension	Stainless steel 1.4301 (SS304) or 1.4404 (SS316L) various lengths available		



SOLUTIONS

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Vibranivo[®] 2000 / 6000

Vibration level limit switch

The universal unit for reliable level monitoring of granulated and powdered bulk goods – versatile, especially suitable for light media; certified for hazardous locations (gas and dust); complies with NAMUR standard



Vibranivo[®] 2000 / 6000



- Modular and simple design
- Suitable for virtually all bulk goods
- Absolutely maintenance-free

Application: Vibranivo[®] probes can be used as full, demand or empty detectors in bulk good silos. They are especially suited for use in all fine grain and powdered solids, including very light materials with a density below 5g/l. Vibranivo[®] vibration forks are available with international certificates for applications in hazardous locations (gas and dust).

Types of Vibranivo demand, full and empty detectors:

oblique installation

Vibranivo ..020 Short extension length, vertical, horizontal and oblique installation



Design with Delivery pipe extension, without pipe vertical and extension oblique (reduced shipping costs, flexible length), vertical and

Vibranivo ..030

Vibranivo ..040 Delivery without pipe extension (reduced shipping costs, flexible length), Vibranivo ..050 Model with cable extension, vertical installation up to 20m measuring range



Technical Data

Housing	Aluminium IP 66 / NEMA Type 4X		
Pressure range	-1 up to +16 bar (-14.5 up to +145 psi)		
Supply voltage/ Signal output	PNP 2-wire without contact NAMUR	1850V DC 3-wire, at 19230V AC/DC	
Certificates	ATEX II 1D and 1/2D ATEX II 1G and 1/2G EEx ia IIC ATEX II 2G EEx de [ia] IIC, EEx d [ia] IIC FM Cl. I, II, III, Div.1 Gr. A-G; Zone 0 CSA Cl. I, II, III Div.1 Gr. A-G; Zone 0 TR-CU, IEC Ex, EHEDG		
Process temperature	-40°C up to +150°C (-40°F up to + 302°F)		
Sensitivity	from 5g/l (0.3lb/ft³) adjustable in 2 steps		
Process connection	R1½" conical; NPT 1½"; various flanges available		
Vibration fork/ extension	Stainless steel 1.4301 (SS304) or 1.4404 (SS316L), various lengths available		

VN 2000 VN 6000 VN 6000 VN 6000 Standard Standard Flameproof Flameproof, intrinsically safe Image: Standard Ima

Vibrasil[®]-probe for Silicic acid

For very light and pneumatically conveyed solids. This specially designed Vibranivo vibration fork with enhanced sensitivity and an immediate switching reaction provides perfect measuring results e.g in fluidized silica with a **bulk density less than 5g/l.**

Vibranivo Vibrasil 70 Specially for flow control in material with a high percentage of air (extremely low bulk density)





for all kinds of silicic acid containers (low bulk density)



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Vibranivo® 4000

Vibration level limit switch

The economic solution for reliable level monitoring of bulk goods. Versatile and maintenance-free. Certified for hazardous locations (dust).



Vibranivo® 4000



- Sensational price-performance ratio
- Wide range of applications
- Maintenance-free

Application: Depending on the requirements, the Vibranivo[®] 4000 can be used as a full, demand or empty detector in bulk good silos. It is suitable for use in all fine grained and powdered materials that do not tend to form heavy deposits.

VN 4020

VN 4030

Full, demand, empty detector Installation vertical, horizontal and oblique,

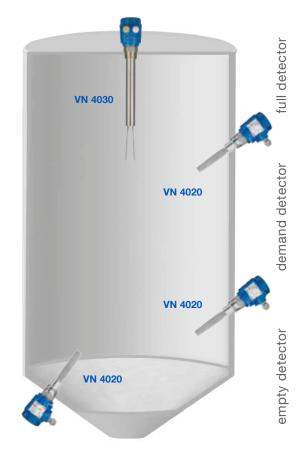
also in limited spaces (e.g. downpipes)

detector Design with extension tube, vertical installation, sliding sleeve option

Full, demand, empty

Full, demand, empty detector Delivery without pipe extension (reduced shipping costs, flexible length), vertical and oblique installation

VN 4040







Technical Data

Housing	Aluminium IP 67 / NEMA Type 4X	
Certificates	ATEX II 1/2D; FM/ CSA CI. II, III Div. 1 IEC Ex, TR-CU	
Process	-40°C up to +150°C	
temperature	(-40°F bis +302°F)	
Pressure	-1 up to +16 bar (-14.5 up to +145 psi)	
Sensitivity	Adjustable in 2 settings: 30g/l (3.8lb/ft³) or 150g/l (9.5lb/ft³)	
Supply	19-230V AC, 19-40V DC relay,	
voltage	18-50V DC PNP 3-wire	
Process	R1½" conical,	
connection	NPT 1½" or NPT 1¼"	
Vibration fork/	Stainless steel 1.4581 (SS316) /	
Extension	1.4301 (SS304) or 1.4404 (SS316L)	



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Vibranivo® Vibrasil 70 / 90

Vibration level limit switch

The universal unit for reliable level monitoring of silicic acids



Vibranivo® Vibrasil® 70 / 90



- Reliable operation in pneumatically conveyed silicic acids
- Developed for full detection in balance tanks
- Level control in vertical shafts and pipes

VIBRASIL 70

VIBRASIL 90



Standard

Tube extension

Rope extension

Applications: The Vibrasil[®] 90 can be used as a full, demand or empty detector in silos and also balance tanks. The high sensitivity and the fast reaction of the probe ensure reliability. The sensitivity can be set to two different levels. The electronics function without time delay.

The Vibrasil[®] 70 has an even higher sensitivity than the Vibrasil[®] 90 and can be used for applications where there is a high air concentration in the conveyor pipe. For example, it can be used for flow detection in conveyor pipes or as a full detector in very small balance tanks within a conveyor system.

Technical Data						
Тур	VIBRAS	SIL 70	VIBRASIL 90			
Available models		Standard (VN 2020) Tube extension (VN 2030) Rope extension (VN 2050)				
Housing		Aluminium IP 66				
Certificates		ATEX II 1/2D, IECEx				
Process temperature		-40°C up to +150°C				
Pressure		-1 up to +16 bar				
Sensitivity		DC value < 5g/l				
Applications	Balance tanks pneumatic cc systems with air concentra	nveyor a high	In Storage Silos, balance tanks and mixers with a lower air concentration			
Supply voltage	19-230V AC/ 19-55V DC					
Signal output		Relay SPDT				
Process connection	Flange DN10 Flange DN10 Other flanges request	0 PN16	R1½ " conical NPT1½ " Large variety of flanges available			
Vibrating rods	195mm Alupa	addel	195mm			
Vibration fork/ extension	Stainless steel 1.4404 or 1.4301					





SOLUTIONS





Simply working



The NAMUR-solution for the chemical industry

Worldwide the first vibration level limit switch for bulk goods to meet NAMUR-standard

The NAMUR-solution for the chemical industry



- worldwide the first vibration level limit switch for bulk goods to meet NAMUR-standard
- 2-wire intrinsic safe electronic module for Hazardous Locations (gas and dust)
- free choice of manufacturer for additional components

IEC 60947-5-6 (NAMUR) DIN EN 60947-5-6 (NAMUR)

previous standard: DIN EN 50227 (DIN 19234; NAMUR) EMV according to NAMUR-recommendation NE21

