

UWT

LEVEL. UP TO THE MAX.



6 YEARS
GUARANTEE
APPROVED
QUALITY

Mononivo® 4000

INTERRUPTOR DE NIVEL - VIBRACIÓN

El Mononivo® 4000 puede ser utilizado como detector de nivel lleno, vacío o intermedio en silos y contenedores. Es también apropiado como sensor de atasco para tuberías y conductos. El MN 4000 es fácilmente utilizable en polvos que tienden a formar puentes así como en granulados gruesos.



Mononivo® 4000



- Interruptor de nivel compacto a partir de una conexión de rosca de 1"
- Medición para sólidos ligeros a partir de los 20 g/l
- Fácil instalación y puesta en marcha

MN 4020

Detector de nivel
lleno, vacío o intermedio
Instalación vertical,
horizontal y diagonal,
también en espacios
limitados (por ej. tubos
de descarga)



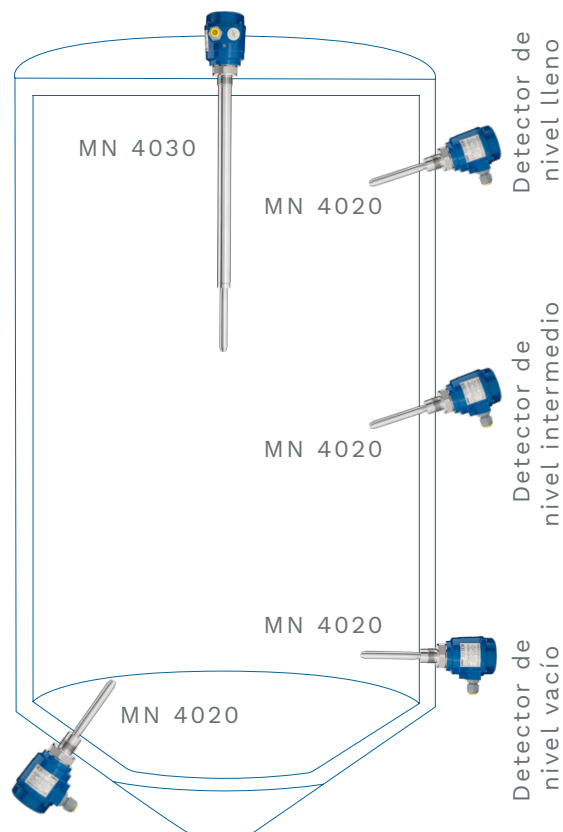
MN 4030

Detector de nivel
lleno, vacío o intermedio
Diseño con tubo de
extensión, instalación
vertical y diagonal,
opcionalmente con
ajuste de altura



MN 4040

Detector de nivel
lleno, vacío o intermedio
Suministro sin tubo de
extensión (bajo costo de
flete, largo de la extensión
flexible), instalación
vertical y diagonal



DATOS TÉCNICOS

Carcasa	Aluminio IP 67 / NEMA tipo 4X
Certificados	ATEX, IEC-Ex, FM / FMc, INMETRO, TR-CU, CCC-Ex, KCs (A prueba de ignición por polvo)
Temperatura de trabajo	-40 °C .. +150 °C (-40 °F .. +302 °F)
Presión	-1 .. 16 bar (-14,5 .. +232 psi)
Sensibilidad	Ajustable en 4 escalas: a partir de los 20 g/l (1.25 lb/ft³)
Tensión de alimentación	21-230V AC, 22-45V DC Relé, 20-40V DC PNP 3-Hilos
Conexión al proceso	G 1"; G 1½"; NPT 1"; NPT 1¼"; NPT 1½"; Triclamp 2"; diferentes bridas
Material de la extensión	Acero inoxidable 1.4301 (SS304) / 1.4541 (SS321) ó 1.4404 (SS316L)

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Vibranivo® 1000 / 5000

VIBRATING FORK LEVEL SWITCH

Vibranivo® probes 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® 1000 / 5000



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

Types of Vibranivo demand, full and empty detectors

VN ..020
Short, vertical, horizontal and oblique installation



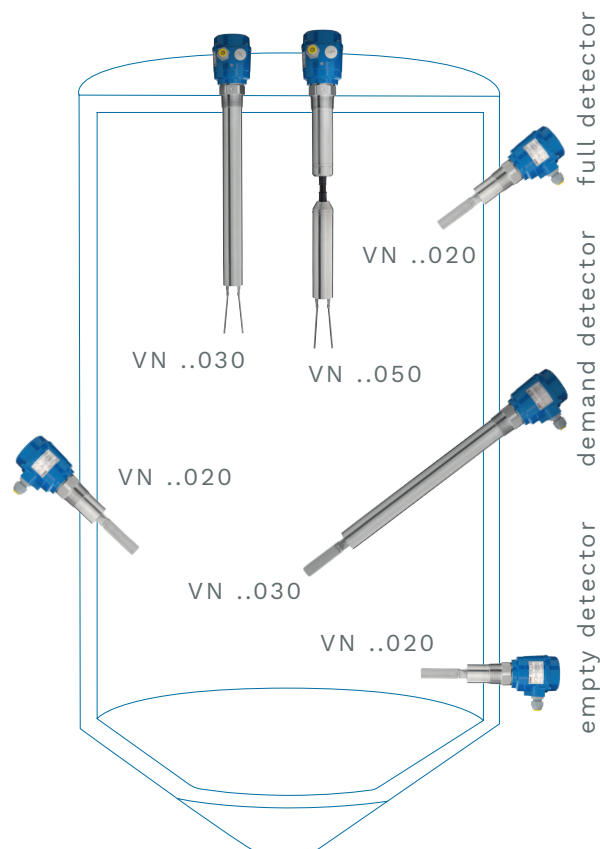
VN ..030
Pipe, vertical and oblique installation



VN ..040
Delivery with-out pipe extension (reduced shipping costs, flexible length), vertical and oblique installation



VN ..050
Cable, vertical installation up to 7 m measuring range



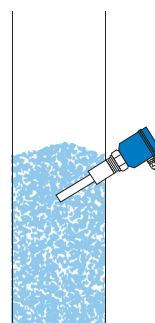
Housing types

VN 1000 Standard **VN 5000 Standard** **VN 5000 Flameproof** **VN 5000 Flameproof, Intrinsically safe**

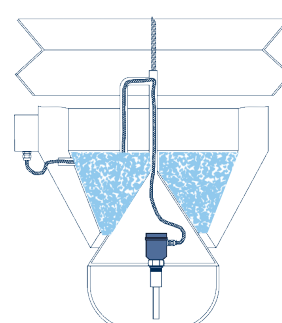


Use in limited spaces

Mounting in downpipe as back up switch



Mounting in loading bellow as full detector



TECHNICAL DATA

Housing	Aluminium IP66 / NEMA Type 4X
Pressure range	-1 .. +16 bar (-14.5 .. +145 psi)
Supply voltage/ Signal output	Relay SPDT 19..230 V AC, 19..55 V DC Relay DPDT 19..230 V AC, 19..36 V / 55 V DC PNP 18..50 V DC 3-wire 2-wire without contact 19..230 V AC/DC 8/16 mA; 4-20 mA 12,5-30/36 V DC 2-wire
Versions with certificates	ATEX, IEC-Ex, FM / CSA, TR-CU, INMETRO, UKEX, CCC-Ex, KCs (Dust explosion-proof, Flameproof, Intrinsically safe, Increased safety)
Process temperature	-40 °C .. +150 °C (-40 °F .. + 302 °F)
Sensitivity	From 50 g/l (3 lb/ft3) adjustable in 2 steps
Process connection	R 1½" conical; NPT 1½"; various flanges available
Vibration fork/ extension	Stainless steel 1.4301 (SS304) or 1.4404 (SS316L) various lengths available

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Vibranivo® 2000 / 6000

VIBRATING FORK LEVEL SWITCH

Vibranivo® probes are especially suited for use in all fine grain and powdered solids, including very light materials with a density below 5 g/L.



Vibranivo® 2000 / 6000



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

Types of Vibranivo demand, full and empty detectors

VN ..020
Short,
vertical,
horizontal
and
oblique
installation



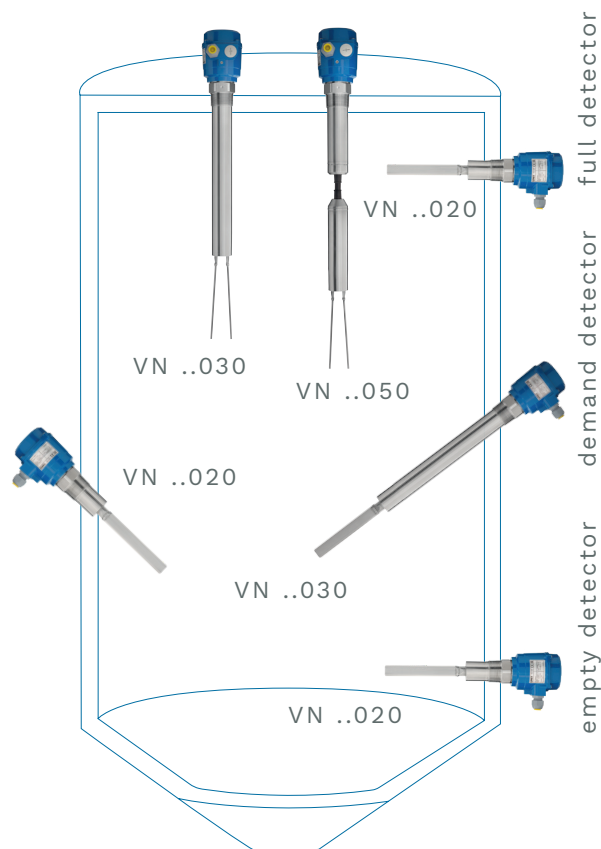
VN ..030
Pipe,
vertical
and
oblique
installation



VN ..040
Delivery with-
out pipe exten-
sion (reduced
shipping costs,
flexible length),
vertical and
oblique
installation



VN ..050
Cable,
vertical
installation
up to 7 m
measuring
range



TECHNICAL DATA

Housing	Aluminium IP 66 / NEMA Type 4X
Pressure range	-1 .. +16 bar (-14.5 .. +145 psi)
Supply voltage/ Signal output	Relay SPDT 19..230 V AC, 19..55 V DC, Relay DPDT 19..230 V AC, 19..36 V / 55 V DC PNP 18..50 V DC 3-wire, 2-wire without contact 19..230 V AC/DC NAMUR IEC 60947-5-6 2-wire 8/16 mA; 4-20 mA 12,5-30/36 V DC 2-wire
Versions with certificates	ATEX, IEC-Ex, FM / CSA, TR-CU, INMETRO, UKEX, CCC-Ex, KCs (Dust explosion-proof, Flameproof, Intrinsically safe, Increased safety)
Process temperature	-40 °C .. +150 °C (-40 °F .. +302 °F)
Sensitivity	from 5 g/l (0.3 lb/ft3) adjustable in 2 steps
Process connection	R 1½" conical; NPT 1½"; various flanges available
Vibration fork/ extension	Stainless steel 1.4301 (SS304) or 1.4404 (SS316L), various lengths available

Housing types



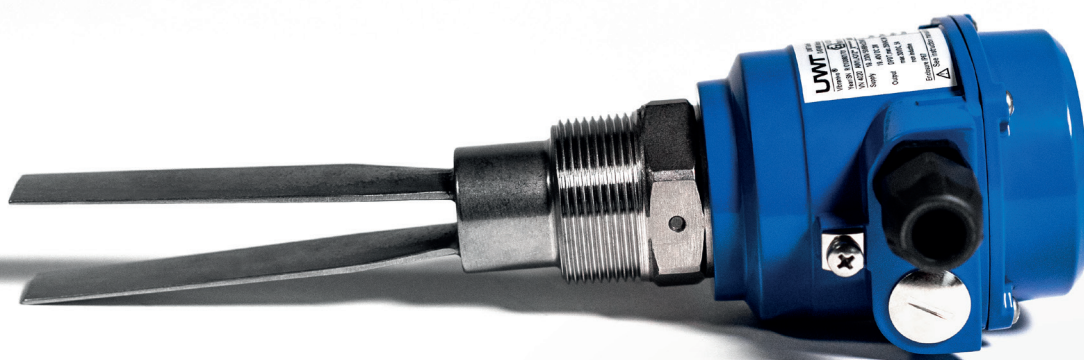
Vibrasil® probe for Silicic acid
For very light and pneumatically conveyed solids. This specially designed Vibranivo vibration fork with enhanced sensitivity and an immediate switching reaction provides perfect measuring results e.g in fluidized silica with a bulk density less than 5 g/l.



Vibranivo®
Vibrasil® 90

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Vibranivo® 4000

VIBRATING FORK LEVEL 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

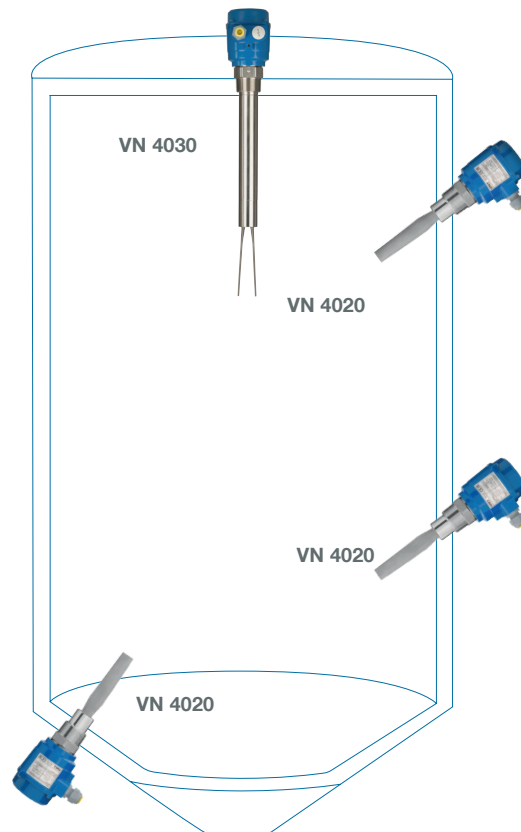
VN 4020
Full, demand,
empty detector
Installation
vertical,
horizontal and
oblique, also in
limited spaces
(e.g. down-
pipes)



VN 4030
Full, demand,
empty detector
Design with
extension
tube, vertical
installation,
sliding sleeve
option



VN 4040
Full, demand,
empty detector
Delivery without pipe
extension (reduced
shipping costs,
flexible length),
vertical and
oblique installation



TECHNICAL DATA

Housing	Aluminium IP 67 / NEMA Type 4X
Certificates	ATEX, IEC-Ex, FM / CSA, TR-CU, UKEX, CCC-Ex, KCs (Dust explosion-proof)
Process temperature	-40 °C .. +150 °C (-40 °F .. +302 °F)
Pressure	-1 .. +16 bar (-14.5 .. +145 psi)
Sensitivity	Adjustable in 2 settings: 30 g/l (1.9 lb/ft3) or 150 g/l (9.5 lb/ft3)
Supply voltage	19-230 V AC, 19-40 V DC relay, 18-50 V DC PNP 3-wire
Process connection	R 1½" conical, NPT 1½" or NPT 1¼"
Vibration fork/ extension	Stainless steel 1.4581 (SS316) / 1.4301 (SS304) or 1.4404 (SS316L)