Ingeniously simple and reliable level measurement











UWT - Your Solutions Partner



Our Products



"With heart and soul

- and smooth co-operation"



When we started, over 40 years ago, with the development of our ingenious products, no one could have foreseen the unparalleled success story that followed. UWT has become one of the leading suppliers of measurement technology on the world market today for the level detection in silos and material manufacturing processes. Names of e.g. Rotonivo®, Vibranivo® and NivoBob® represent quality, flexibility and reliability in over 70 countries across the world. Having successfully solved over a million applications within the bulk solids sector, UWT has expanded still further by introducing a new and innovative product range for the liquids market which is delivering reliable solutions for applications in this area.

The development, production and sales departments are located at our headquarters in Germany, with a further production site in Malta. UWT has also established successful sales offices in the USA, UK, China, India, Russia and most recently Brazil. With this global orientation, we are able to serve and support our customers with complete competence and flexibility. From development through production to final assembly and comprehensive technical advice, we can offer a complete service from a single source. Focus is placed on delivering the highest quality products, technical expertise and a good working relationship with customers, suppliers and partners. The strongly held belief by CEO Uwe Niekrawietz is for the welfare of over 155 employees world-wide: "Healthy and happy employees can make the unbelievable happen".

Every year, our product portfolio evolves, develops and brings about solutions for a variety of industries. As well as providing level measurement we also offer monitoring and visualisation systems, together with complete project planning. Renowned plant manufacturers and end users around the world appreciate our ability to deliver customised solutions for their applications, as well as the ease of use and durability of the UWT sensors. Our strategy in the consistent monitoring of our own steady and sustainable growth allows us to provide the best value solutions for our customers.





Awarded for innovative industrial solutions

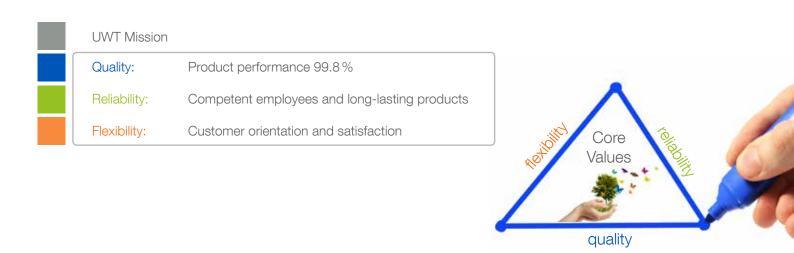


Headquarters in Betzigau, Germany



Our mission

We are guided by our company characteristics: responsibility, enterprising as well as challenging and stimulating. Our company values: quality, reliability, flexibility form our strategic direction and guide us when dealing with colleagues, customers or business partners alike.



Your team for innovative measurement technology

Over the years, as a German small/medium-sized enterprise (SME) and family-run business, we have become the world's competent partner for level measurement technology. A company reaches such a position only if the following key elements interact: Sound management, good understanding of the needs of the markets, innovative product solutions, skillful investment and above all, committed and dedicated employees.



ADM

BMW

Manes

MOTAN

MVV Umwelt O&M

Nestlé

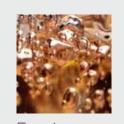
Our core industries



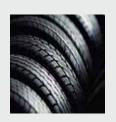
Building & Cement



Chemicals



Food



Rubber



Environment & Recycling



Power



Synthetics



Wood



Animal Feed



Metal



Glass



Approvals world-wide























Quality Certificates





Our products

Rotonivo®

Rotary Paddle Level Switch for SOLIDS

A motor driven shaft causes a vane to rotate. Once the material level reaches the vane, thereby preventing further rotation, switches are activated which result in an output signal and the motor stops. When the vane is free again from material, the output signal is reset and the motor driven shaft rotates again.





Our Solutions for:

- Strong caking
- Dusty environments
- Abrasive materials
- Extreme process temperature
- Over pressure and low pressure environments
- Heavy mechanical loading
- Electrostatic charging
- Variable parameters
- O Explosive environments
- Hygienic applications

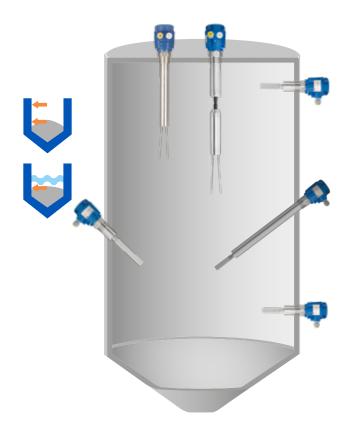
- Universal voltage electronics
- ✓ Adjustable sensitivity (≥15g/l)
- ✓ Rotation principle unaffected by caking
- ✓ Robust aluminum die cast housing
- ✓ Protected motor (friction clutch & double bearing)
- ✓ Modular design
- ✓ Tube and metal rope extension
- ✓ Temperature range from -40°C to +1,100°C
- ✓ High quality grade stainless steel (process)
- ✓ Long lifespan (brushless synchronised motor)
- → RN 6000 is world's first rotating level limit switch compliant to SIL 2

Vibranivo®

Vibrating Level Switch for SOLIDS & SEDIMENTS IN LIQUIDS

Electronically stimulated piezos cause the fork to vibrate. As soon as the sensor is covered with material, the vibration is dampened and the resulting electrical current change causes the output signal to switch. Once the material level falls below the sensor it is free to vibrate again and the output signal is reset.





Our Solutions for:

- O Extremely light product density
- O Pneumatic filling
- Process overpressure
- Limited space
- O Vibration within the vessel
- High reliability requirements
- O High hygienic requirements
- O Explosive environments
- Sediment levels in liquids

- ✓ 2-wire instrument
- ✓ Very high sensitivity (<5g/l Vibrasil®)</p>
- ✓ Surface roughness of 0.75 µm
- ✓ High quality material in the process (SS 316L)
- ✓ Cable and tube (screwed) extension
- ✓ Suitable for overpressure up to 16 bar
- ✓ Temperature range from -40°C to +150°C
- ✓ Extremely robust short version
- ✓ PFA and Teflon coating
- ✓ NAMUR Standard
- ✓ Level control of sediments in liquids

Mononivo[®]

Vibrating Level Switch for **SOLIDS**

Electronically stimulated piezos cause the single rod probe to vibrate. When the material covers the sensor, this causes the vibration to stop and a voltage change is caused within the piezo elements. This is electronically registered and causes the output signal to switch.





MN 4020



MN 4030 Tube



MN 4040 Tube screwed



Our Solutions for:

- O Light products from 20 g/l
- O Powdery material with strong caking properties
- Coarse-grained granulate
- Pneumatic filling
- O Process overpressure
- Limited space
- Overfill detection within tubes and shafts
- O Vibration within the vessel
- O High safety standard
- O High hygienic requirements
- Explosive environments

- ✓ Compact limit switch with threads from 1"
- Sensitivity adjustable in 4 settings
- ✓ High surface quality
- ✓ High quality material in the process (SS 316L)
- ✓ Heavy mechanical loading
- ✓ Robust version for overpressure up to 16 bar
- ✓ Temperature range from -40 °C to +150 °C
- ✓ Tube extension (screwed)

RFnivo®

Capacitance Level Switch for SOLIDS

The capacitive level limit switch is automatically calibrated to a reference capacitance of an empty vessel. If the probe is covered by the product, the measured capacitance changes through the dielectric and a switching signal is activated. The integrated "Active Shield" technology ensures high reliability even for products that cause caking.





Our Solutions for:

- Heavy materials
- O Dusty environments
- O Abrasive and aggressive media
- O Extreme process temperatures
- O Positive and negative pressure
- Caking material
- O Vibration in the vessel
- Hazardous areas
- O EHEDG applications

- Very high sensitivity (DK ≥ 1.5)
- ✓ High mechanical load
- ✓ Simple to install and set up
- → High quality process materials (SS 316L, ceramics, PPS)
- ✓ Rod and metal rope extension
- ✓ Robust version for overpressure up to 25 bar
- ✓ Temperature range from -40°C up to +500°C
- → RF 3100 PROTECTION PLUS version with anti-corrosive coating (PFA Teflon®)

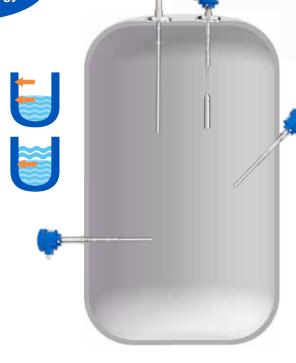




Inverse Frequency Shift Technology

Capacitance Level Switch for LIQUIDS & INTERFACE

The capacitive measuring limit switch responds to the change in capacitance at the probe, which is detected by the change in the oscillating frequency. The integrated "Active Shield" technology ensures high reliability even for products that cause caking.



RF 8100 Rod







RF 8200 Temp.



Our Solutions for:

- O All types of liquids
- O Applications with condensation
- Very strong caking
- High process temperatures
- O Corrosion resistance in aggressive materials
- O Vibrations within the process
- O High safety standard
- O Explosive environments
- O Interface measurement

- ✓ Functionality independent of silo wall
- ✓ Temperature range from -40°C up to +400°C
- ✔ Robust version for overpressure up to 35 bar
- Digital electronics with Profibus PA, integrated display and operating menu
- ✔ Potted electronics
- ✓ Very high sensitivity (DK ≥ 1.5)
- ✓ Rod and metal rope extension (up to 25 m)
- ✓ WHG certification
- ✓ Certification accord. Lloyd's Register

Capanivo®

Capacitance Level Switch for SOLIDS

The electrodes in the sensor form a capacitor. If the product comes into contact with the sensor, the capacitance changes and the electronics converts it into a switching signal. The integrated "Active Shield" technology allows this system to be used in particularly adhesive materials.





Our Solutions for:

- O Light materials
- O Dusty environments
- O Pneumatic filling
- Overpressure
- Very strong caking
- O Corrosion resistance for aggressive material
- High process temperature
- O High standard of safety requirement
- O Explosive environments

- ✓ Very high sensitivity (DK ≥ 1.6)
- ✓ Functionality independent of silo wall
- ✓ Range of process connections
- ✓ Adjustable switching delay
- ✓ Variety of mechanical versions
- ✓ Tube and cable extension
- Overpressure up to 25 bar
- ✓ Temperature range from -40°C to +180°C
- ✓ Food compliant version

Capanivo®

IO-Link

Capacitance Level Switch for LIQUIDS & INTERFACE

The electrodes in the sensor form a capacitor. If the product comes into contact with the sensor, the capacitance changes and the electronics converts it into a switching signal. Available as version with stainless steel or synthetic housing.

The integrated "Tip Sensitivity" and "Active Shield" technology guarantee a high level of functional reliability even for products that cause caking.



CN 7120



CN 7121



CN 7130 Tube



CN 7150 Cable



Our Solutions for:

- All types of liquids
- Strong caking
- O Limited space
- O Corrosion resistance in aggressive materials
- High safety standard
- O High hygiene requirements
- Explosive environments
- Leakage detection
- O Interface measurement

- Available with two different housing sizes
- ✓ Compact limit switch from ½"connection thread
- ✓ For universal use
- ✓ Installation in all kinds of tanks
- ✓ For use in metallic and non-metallic containers
- ✓ Very high sensitivity (DK ≥ 1.5)
- ✓ Inverse Frequency Shift Technology
- ✓ Stainless steel and synthetic version available
- ✓ Temperature range from -40 °C up to +125 °C (CIP suitable up to 150 °C)
- ✓ IO-Link with PNP, NPN, push pull signal output
- ▼ 8/16 mA or 4...20 mA continuous current output
- ✓ WHG and VLAREM certification

Capanivo®

Inverse Frequency Shift Technology

Capacitance Level Switch for LIQUIDS & INTERFACE

The electrodes in the sensor form a capacitor. If the product comes into contact with the sensor, the capacitance changes and the electronics converts it into a switching signal.

The integrated "Tip Sensitivity" technology guarantees a high level of functional reliability even for products that cause caking.







Our Solutions for:

- All types of liquids
- Strong caking
- O Vibrations within the process
- O Corrosion resistance in aggressive materials
- High safety standard
- O Explosive environments
- Leakage detection
- O Interface measurement

Special Features:

- ✓ For universal use in containers up to 30 m
- ✓ Installation in all kinds of tanks
- ✓ For use in metallic and non-metallic containers
- \checkmark Very high sensitivity (DK ≥ 1.5)
- ✓ Potted electronics
- Digital electronics with Profibus PA, integrated display and operating menu (optional)
- ✓ Robust version for overpressure up to 25 bar
- ✓ Temperature range from -40°C up to +125°C
- ✓ WHG certification
- Certification accord. Lloyd's Register
- ✓ SensGuard cover (optional)



Remote Version

NivoCapa®

Inverse Frequency Shift Technology

Capacitance Level Transmitter for LIQUIDS & INTERFACE

The sensor measures the electrical capacity of the level in the tank. The integrated "Active Shield" technology allows this system to be used in particularly adhesive materials.







NC 8100 Rod







Our Solutions for

- O All types of liquids
- O Applications with condensation
- Very strong caking
- O Corrosion resistance in aggressive materials
- High safety standard
- O Explosive environments

NC 8100 Rope



- ✓ High measurement accuracy
- ✓ Installation in all kinds of tanks
- ✓ For use in metallic and non-metallic containers
- 2-wire instrument (output signal 4...20 mA according to NAMUR NE 43)
- ✓ Very high sensitivity (DK \geq 1.5)
- ✓ Rod and metal rope extension (up to 25 m)
- ✓ Robust version for overpressure up to 35 bar
- ✓ Temperature range from -40°C up to +200°C
- ✓ Quick response time
- ✓ PFA Teflon® coating
- Programmable electronics with buttons and LC display for level, damping, diagnosis etc.
- ✓ Certification accord. Lloyd's Register

NivoBob®

Electromechanical Plumb Bob for SOLIDS & LIQUIDS & SEDIMENTS IN LIQUIDS

A sensor weight attached to either a metal tape or rope is electromechanically lowered into the vessel. Once the sensor weight rests on the material, the winding direction of the motor changes and the sensor weight is rewound to the upper stop position. As the weight is lowered, the distance is electronically measured.

Microprocessors convert the measured distance together with the programmed silo geometry into a volumetric output signal. This signal is updated each time the sensor weight is lowered.



NB 3000 NB 4000 Aiming flange

Sensor weights

Our Solutions for:

- Strong caking
- O Material with changing temperature and humidity
- Electrostatic charging
- O Heavy material as well as light solids
- Limited space
- Low dielectric constant
- O High process temperatures
- Large measurement distances
- Explosive environments

- → High sensitivity (≥20 g/l) dep. on sensor weight
- ✓ Rope and tape version
- ✓ Measurement range of up to 50 m
- ✓ Overpressure version up to 1.7 bar
- ✓ Temperature range from -40°C to +250°C
- ✓ Service life up to 500,000 cycles of tape version
- ✓ Integrated tape cleaner
- ✓ Diagnostics function
- ✓ Simple installation and set up
- Comm. via Modbus RTU or Profibus DP



NivoRadar®

Radar Sensor for SOLIDS

A high frequency signal is transmitted with a very small beam angle with a two-wire technology. It is reflected by the bulk material and received back to the sensor. The frequency difference, which is directly proportional to the distance, is then further processed and output as the level signal. The small beam angle makes the use in tall narrow silos possible and facilitates the installation and alignment of the sensor.

NR 3000 Flange versions

Flat flange



Aiming flange



Functions

Electronics with 78 GHz frequency

Integrated lens cleaner

Aiming flange up to max. 10°



Lens antenna with 4° beam angle

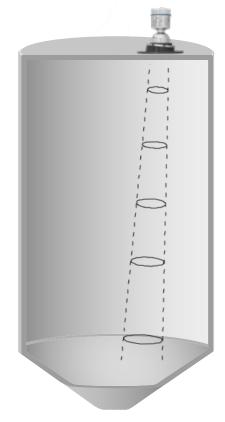
Programming module



Plug-on-display:

Programming
Input starting parameters
Display level and diagnostic data





Our Solutions for:

- Very light material
- Various application industries
- Dusty environment
- O Measurement range of up to 100 m
- O Use within tall, narrow silos
- Optimum reflection of the bulk solids material
- O Corrosion resistance for aggressive material
- O High process temperature
- Perfect positioning
- Explosive environments

- ✓ Signal processing with Process-Intelligence-Software
- ✓ 2-wire instrument
- ✓ High sensitivity (DK ≥ 1.6)
- ✓ 78 GHz technology
- ✓ 4° beam angle
- ✓ Lens antenna and mounting flange are flush
- ✓ Integrated lens cleaner
- ✓ Robust stainless steel housing IP68
- Aiming flange model
- Temperature solution up to +200°C
- ✓ Plug-on-display
- Quick Start Wizard
- ✓ Simple, six-step commissioning

NivoGuide®

Customizable extensions

Guided Wave Radar Sensor for SOLIDS

High-frequency microwave pulses are coupled to a cable or rod and guided along the probe. The emitted pulse is reflected by the product surface. The time difference between the transmitted and reflected pulse is converted to a level.





NG 3100 Rod

NG 3100 Rope







- O Bulk materials with strong withdrawal forces
- Strong caking
- Abrasive materials
- O Dusty environment
- O Condensation and foam generation, steam
- Large measurement distances
- O Explosive environments

Integrated display and adjustment module



Lid with viewing window



Pluggable display and adjustment module

- Comprehensive diagnostic functions
- Display of latest measured values, operating parameters and diagnostic data
- Parameters entered can be transfered to other devices
- Fast commissioning

- ✓ Modular design
- Very high sensitivity (DK ≥ 1.5)
- ✓ Rod and rope extension (up to 75 m)
- ✓ PA-coated rope probe
- ✓ Temperature range from -40°C up to +200°C
- ✓ Robust version for overpressure up to 40 bar
- ✓ Intelligent Software
- ✓ Integrated display and adjustment module
- Comprehensive diagnostic functions
- Display unit can be removed after programming
- ✓ Robust coupling
- Automatic length determination of the probe



NivoGuide®

Customizable extensions

Guided Wave Radar Sensor for LIQUIDS & INTERFACE

High-frequency microwave pulses are coupled to a cable or rod and guided along the probe. The emitted pulse is reflected by the product surface. The time difference between the transmitted and reflected pulse is converted to a level.





















Pluggable display and adjustment module

- Comprehensive diagnostic functions
- Display of latest measured values, operating parameters and diagnostic data
- Parameters entered can be transfered to other devices
- Fast commissioning

Our Solutions for:

- O Liquids with moving surface
- Strong caking
- O Process overpressure
- Small containers with fixtures
- High process temperatures
- O Condensation and foam generation, steam
- Hygiene versions
- O Explosive environments
- Measurements within bypass
- O Interface measurement

- Modular design
- ✓ Very high sensitivity (DK ≥ 1.4)
- ✓ Rod and rope extension (up to 75 m)
- ✓ Temperature range from -196 °C up to +450 °C
- Coaxial version
- ✓ For extremely high pressure up to 400 bar
- ✓ Condensate cone
- ✓ False echo suppression
- Second line of defense (optional)
- ✓ High measuring accuracy (±2mm)
- Large measuring range (low blocking distance)
- ✔ Boiler approval

NivoTec®

Level monitoring and visualisation

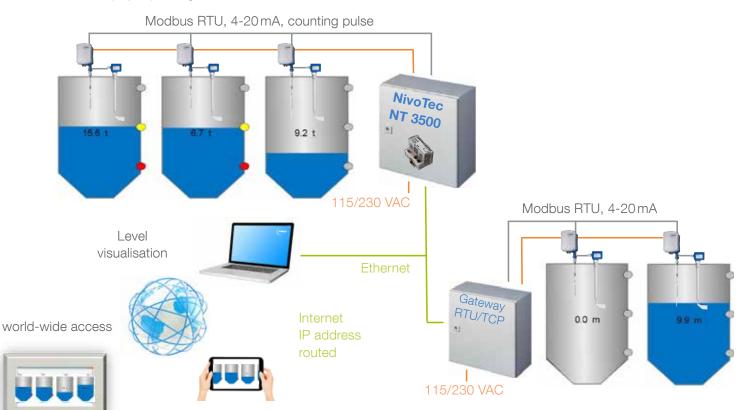
NT 2000 Level indication integrated within a control cabinet

- O Indication of level in weight, height, percentage or volume via LED display
- O For evaluating the output signal from any level sensors with analog signal 4-20 mA
- O Fill control by silo full detectors
- O Truck module for tanker trucks to prevent overfilling of silos
- O Clear and easy management of the different indicators
- O Complete system with project specific electrical plans



NT 3500 Level visualisation from a PC via webserver

- O Level visualisation via webserver
- O Password-protected for various use levels with standard browser software on the Ethernet
- For data storage and downloads, trend data and evaluation
- O World-wide remote access to the visualisation software
- Fill control by alarm full detection, pinch valve control within filling tubes and recognition of tanker coupling
- O For integration of truck operating modules at filling station stage
- O Level- and alarm-message via e-mail
- O Interfaces for level sensors, 4-20 mA, Modbus RTU, Ethernet TCP, counter signal, relay
- O Complete system with project specific electrical plans
- Individual project planning



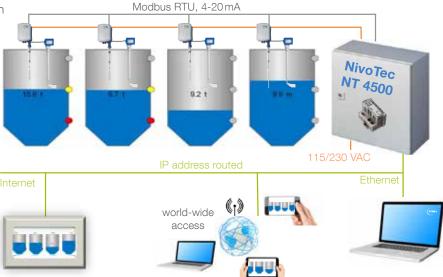
NT 4500 Level visualisation from a PC via webserver

Standardised, cost effective level visualisation via webserver

 Password-protected for various use levels with standard browser software on the Ethernet

For data storage and downloads, trend data and evaluation

- O Fill control by alarm full detection
- O Level- and alarm-message via e-mail
- Interfaces for level sensors, 4-20 mA, Modbus RTU
- Complete system with electrical plans



Example of a complete visualisation system for NT 4500

NT 4600 Level visualisation via 7" touch panel

- O Visualisation and operation via 7" touch panel
- O Data in percentage, height, volume or weight
- Trend display, data storage
- Evaluation of the analogue 4-20 mA signals of any sensors, as well as Modbus RTU of the UWT-systems
- O Fully wired whether mounted or within control cabinet



NT 4700 Level indicator with digital display

- O Digital display hardwired into the terminal box
- O Evaluation of level signal 4-20 mA of any sensors
- O Level indication via 4-digit LED display in weight, height, percentage or volume
- Version for suitable for NivoBob® with "Start measurement" button and LED for "sensing weight in the upper end position"



NT 4900 Level indicator with digital display

- O Built-in digital display module
- O Level indication in weight, height, percentage or volume
- Yellow LED-Display, 4-digit, 7 segment
- Easy to use button operation on face of unit
- O Interface 4-20 mA



Interface Solutions

Resistant stainless steel probes

Interface measurement of solids in liquids

The detection of bulk solids in liquids as well as sludge levels usually takes place in sediment containers, filters or inclined clarifiers. Typical areas of application are in the metal industry, in chemical plants, lime or gravel works and the sewage industry.



Our Solutions for:

- O Continuous level measurement: Lot system NivoBob® series NB 3300/3400
- O Point level detection:
 Vibration fork Vibranivo® series VN 1000/5000

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Special Features:

- ✓ Adjustable sensitivity
- ✓ Robust design
- Unaffected by dirt and moisture
- ✓ Reliable and precise detection of solids

Interface measurement of liquid layers

In industry applications where a separating layer between two different liquids or a liquid and foam layer is measured, both the capacitance measuring principle and the guided wave radar technology are used.



Our Solutions for

- O Continuous level measurement:
 Capacitance level transmitter NivoCapa® series NC 8000
 TDR sensor NivoGuide® series NG 8000
- Point level detection:
 Capacitance level switch Capanivo® series CN 7000/8000
 Capacitance level switch RFnivo® series RF 8000





- Adjustable sensitivity
- ✓ High measurement accuracy
- ✓ Chemical resistant materials
- Detection of total level, separation layer and thickness of upper layer



Service & Support

High-class service for high-tech products

The competent UWT sales and service teams help our clients in consulting and engineering, with professional installation, precise parameterization and a universal service support. Our products are designed individually according to the needs of our customers. Particular service package features can be selected as well as a fixed price, universal service support arrangement.

However, with any service support provided by UWT, our specialists are not satisfied until our customers are.



Project

- Our experts offer individual advice for tailored measurement technology for your system
- We will support you throughout the whole project and are always there for you, to support you with technical questions
- At UWT you get complete packages from a single source

 simply, professionally and efficiently



Installation and Set-up

- Our experienced specialists will install all matched components professionally and ensure you a smooth start
- For the wiring, it goes without saying we only use high-quality materials, e.g. outdoor cables are UV protected
- At the commissioning stage, UWT service technicians leave nothing to chance and thus prevent any incorrect set up from the start



Operator training

- Operator instructions and user training ensure effective implementation and trouble-free operating
- After commissioning we will continue to support your plant

UWT sensors provide solutions for the most challenging conditions

Benefit from our experience and you will find a suitable product for all types of application

O S	Product Matrix Solids		LevelL	Level Limit Measurement	ement		ပိ	ntinuous M	Continuous Measurement	⊕
٩	Product	Rotonivo [®] RN 3/4/6	Vibranivo® vn 1/2/4/5/6	Mononivo® MN 4	RFnivo [®] RF 3	Capanivo® cn 4	NivoBob [®] NB 3	NivoBob [®] NB 4	NivoRadar [®] NR 3	NivoGuide [®] NG 3
M	Measuring principle	Rotation	Vibration	Vibration	Capacitive	Capacitive	Lot System	Lot System	Radar	Guided Radar (TDR)
səih	Granulate / powder	>	>	>	>	>	>	>	>	>
okobe	Solids in liquid	ı	>	ı	ī	ı	>	ı		,
erial p	Material prone to caking	>	1	ı	>	•	>	>	•	•
tsM	Abrasive Material	>	>	>	•	1	>	>	>	•
	Sensitivity (bulk density/DK)	≥ 15 g/l	< 5 g/l**	≥ 20 g/I	DK ≥ 1.5	DK≥1.6	> 20 g/l	≥ 20 g/l	DK ≥ 1.6	DK ≥ 1.5
snoit	Process temperature	-401100°C	-40150°C	-40150°C	-40500°C	-40180°C	-40250°C	-4080°C	-40200°C	-40200°C
ibnoo	Process pressure	10 bar	16 bar	16 bar	25 bar	25 bar	1.7 bar	0.2 bar	3 bar	40 bar
.oce22	High mechanical load	>	•	•	>	ı	•	•	•	•
lЧ	High humidity	>	ı	ı	>	>	>	>	•	•
	Vibration in process	•	>	•	>	•	•	•	>	•
* no	EHEDG	1	1	1	>	1	1	1	1	1
tificati	SIL	>	1	ı	ī	ı	1	ı	ı	>
Cer	EX certification	>	>	>	>	>	>	>	>	>
	Sensor Material	316L	316L	316L	316L/PPS/ Ceramic	PPS	304/303/316	AI/303/316	316L/PEEK	316L/PEEK

^{*}further certificates available on request

^{**} further certificates available on request* capable of measuring the lightest of material lower than 5g/l

בֿ בֿ	Product matrix	Leve	Level Limit Measurement	ıt	Continuous	Continuous Measurement	
Pr	Product	Capanivo® cn 7	Capanivo [®] cn 8	RFnivo® RF 8	NivoBob [®] NB 3	NivoCapa® NC 8	NivoGuide [®] NG 8
Me	Measuring principle	Capacitive	Capacitive	Capacitive	Lot System	Capacitive	Guided Radar (TDR)
	Waterbased	>	>	>	>	>	>
səihəc	Oil / viscose Media	>	>	>	>	>	>
al prop	Foam	>	>	>		>	>
inəteM	Material prone to caking	>	>	>	>	>	•
	Interface	>	>	>	>	>	>
	Sensitivity (DK)	DK ≥ 1.5	DK ≥ 1.5	DK≥1.5	N/A	DK ≥ 1.5	DK ≥ 1.4
SUC	Process temperature	-40125°C (SIP/CIP150°C)	-40125°C	-40400°C	-4080°C	-40200°C	-196450°C
oitibno	Process pressure	25 bar	25 bar	35 bar	1.7 bar	35 bar	400 bar
oses co	High mechanical load	•	•	•	•	•	•
OIA	Immersion length (max.)	20 m	30 m	25 m	50 m	25 m	75 m
	Vibration in process	>	•	•	>	•	•
	Moving surface (e.g. wave)	•	>	>	>	>	>
*	ЕНЕДВ	>					1
noitsc	SIL	,	>		1		>
ilihəC	∐oyd's Register	>	>	>	1	>	ı
)	EX certification	>	>	>	>	>	>
	Wetted parts	316L/PPS/ PVDF/PEEK	316L/PPS/PVDF	316L/PFA/PEEK/ Ceramic	301/303/PA/PP	316L/PFA/PEEK	316L/PEEK/ Ceramic

^{*}further certificates available on request

The information in the catalogue is subject to modifications or amendments. Please note that our general terms and conditions apply (www.uwtgroup.com).

perfect choicecan be used (details to be clarified)

not recommended

Application data sheet

			Date:
Contact:		Company:	
Address:		Phone:	
Zip/Town:		E-Mail:	
Measurement	O Point level	O Content	O Interface
Electronic			
Power supply:			
	O 230VAC Hz	O 24VAC Hz	For AC, please specify additionally
	O 115VAC Hz	O 24VDC	mains frequency!
	O 48VAC Hz	O other	
Signal output/Com	munication:		
	O DPDT Relay	O HART	
	O SPDT Relay	O Profibus DP	
	O PNP	O Modbus RTU	
	O NPN	O IO-Link	
	O 4-20 mA	O other	
	O 20-4 mA		
Material conditio	ne		
Material Conditio	Material being measured:		
	Material max temperature:	°C/	°F
	Density:	g/l /	
	Particle size:	mm /	
	Viscosity:	Pa.s	
	Conductivity:	S/m	
	Dielectric constant:	0/111	



Conditions:	O powder	O granular	O slurry/liquid
Flowability:	O normal	O viscous	O subject to bridging
Humidity (solids):	O none	O light	• strong
Build-up:	O none	O light	O strong
Dust:	O none	O light	O strong
Steam:	O none	O light	O strong
Abrasive:	O yes	O none	
Corrosive:	O yes	O none	
Other characteristics of the	material:		
Application details tank/	container		
Material:			
Use/Installation:	O process	O storage	O conveying
Installation position sensor:	O from the top	O from the bottom	O from the side
Profile:	O rectangular	O conical	O round
	O cylindrical standing	O cylindrical horizontal	O other (drawing)
Bottom:	O flat	O conical	O domed
Тор:	O flat	O conical	O domed
Dimensions:			
Container:	height:	mm / _	in (without bottom & top)
	width:	mm / _	in
	length:	mm / _	in
Bottom:	height:	mm / _	in
Тор:	height:	mm / _	in
Process connection:	flange:		
	thread:		
	height nozzle:		
	height socket:		
	other:		
Agitator:	O yes	O none	If yes, please provide drawing
Equipment:	O yes	O none	If yes, please provide drawing
Filling (solids):	O pressure conveying	O vacuum conveying	
	O conveyor belt conveyor screw	O chain conveyor	
Filling:	maximum height	m /	in

The process in detail

	Process pressure:	min l	oar / psi	max	_ bar /	_ ps
	Process temperature:	min	°C / °F	max	_ °C /	_°F
	Ambient process temperature outside:	°C/	°F			
	Vibrations:	O none	O light	O strong		
Certificates		O DustEx	O GasEx	O other		
Required appr	roval:					_
Preferred mea	suring principle:					_
Special feature	es of the application:					

For quick processing, we ask you to submit two drawings/sketches with dimensions. These should indicate the position of the fill/drain line, position of the sensor, internals (such as stirrer) and other special features. Please submit drawings/sketches in side and top view.

Please provide here the application drawing:



Notes



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