

UWT SENSORS FOR DEMANDING MEASUREMENT TASKS

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

Application
data sheet



PRODUCT MATRIX SOLIDS		LEVEL LIMIT MEASUREMENT					CONTINUOUS MEASUREMENT				
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	NivoRadar® NR 4	NivoGuide® NG 3
Measuring principle		Rotation	Vibration	Vibration	Capacitive	Capacitive	Lot System	Lot System	Radar	Radar	Guided Radar (TDR)
Material properties	Granulate / powder	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Solids in liquid	-	✓	-	-	-	✓	-	-	-	-
	Material prone to caking	✓	-	-	✓	●	✓	✓	●	●	●
	Abrasive material	✓	✓	✓	●	-	✓	✓	✓	✓	●
Process conditions	Sensitivity (bulk density / DK)	≥ 0.94 lb/ft³	< 0.312 lb/ft³ **	≥ 1.25 lb/ft³	DK ≥ 1.5	DK ≥ 1.6	≥ 1.25 lb/ft³	≥ 1.25 lb/ft³	DK ≥ 1.6	DK ≥ 1.1	DK ≥ 1.5
	Process temperature	-40..2012 °F	-40..302 °F	-40..302 °F	-40..932 °F	-40..356 °F	-40..482 °F	-40..176 °F	-40..200 °C	-40..80 °C	-40..200 °C
	Process pressure	145 psi	232 psi	232 psi	362.6 psi	362.6 psi	25 psi	2.9 psi	3 bar	3 bar	40 bar
	High mechanical load	✓	●	●	✓	-	●	●	●	✓	●
	High humidity	✓	-	-	✓	✓	✓	✓	●	✓	●
	Vibration in process	●	✓	●	✓	●	●	●	✓	✓	●
Certification*	EHEDG	-	-	-	✓	-	-	-	-	-	-
	SIL	✓	-	-	-	-	-	-	-	-	✓
	EX certification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sensor material		316L	316L	316L	316L / PPS Ceramic	PPS	304/303/316	Al/303/316	316L/PEEK	PVDF	316L/PEEK

Product Matrix Liquids		Level Limit Measurement				Continuous Measurement				
Product		Vibranivo® VN 7	Capanivo® CN 7	Capanivo® CN 8	RFnivo® RF 8	NivoBob® NB 3	NivoCapa® NC 8	NivoRadar® NR 7	NivoRadar® NR 8	NivoGuide® NG 8
Measuring principle		Vibration	Capacitive	Capacitive	Capacitive	Lot System	Capacitive	Radar	Radar	Guided Radar (TDR)
Material properties	Waterbased	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Oil / viscose media	✓	✓	✓	✓	✓	✓	✓	●	✓
	Foam	✓	✓	✓	✓	-	✓	✓	●	✓
	Material prone to caking	✓	✓	✓	✓	✓	✓	●	●	●
	Interface	●	✓	✓	✓	✓	✓	-	-	✓
Process conditions	Sensitivity (Medium density / DK)	≥ 31,21 lb/ft³	DK ≥ 1.5	DK ≥ 1.5	DK ≥ 1.5	irrelevant	DK ≥ 1.5	DK ≥ 1.1	DK ≥ 1.1	DK ≥ 1.4
	Process temperature	-40..302 °F (CIP / SIP ..302 °F)	-40..257 °F (SIP / CIP ..302 °F)	-40..257 °F	-40..752 °F	-40..176 °F	-40..392 °F	-40..176 °F	321°F..842 °F	-196..450 °C
	Process pressure	5801.5 psi	363 psi	362.6 psi	507.6 psi	25 psi	507.6 psi	43.5 psi	2320 psi	5801.5 psi
	High mechanical load	●	●	●	●	●	●	✓	✓	●
	Immersion length (max.)	157.5 in	787 in	1181 in	984 in	1968 in	984 in	0 in	0 in	2952 in
	Vibration in process	✓	✓	●	●	✓	●	●	●	●
	Moving surface	✓	●	✓	✓	✓	✓	✓	✓	✓
Certification*	EHEDG	✓	✓	-	-	-	-	-	✓	-
	SIL	-	-	✓	-	-	-	-	✓	✓
	Lloyd's Register	-	✓	✓	✓	-	✓	-	-	-
	EX certification	-	✓	✓	✓	✓	✓	✓	✓	✓
	Wetted parts	Stainless steel (1.4404)	316L/PPS/ PVDF/PEEK	316L/PPS/ PVDF	316L/PFA/ PEEK/ Ceramic	301/303/PA/ PP	316L/PFA/ PEEK	PVDF	316L/PTFE/ PEEK/PP/ Ceramic	316L/PEEK/ Ceramic

* further certificates available on request

** capable of measuring the lightest of material lower than 0.312 lb/ft³

We reserve the right to make changes. The terms and conditions apply (www.uwtgroup.com).

✓ perfect choice

● can be used (details to be clarified)

- not recommended