

Reliable

External detectors provide a high-resolution density profile without being exposed to process conditions

Cost effective

No shutdown required for maintenance

User friendly

Standard instruments without PLC or special tools



Interface profiler

Multi-phase oil/water interface measurement in separator tanks with emulsion layers

Separation tanks on the deck of an FPSOs contain oil and water as well as other products. Mixing hydrocarbons with water can form an emulsified layer that makes it extremely difficult for operators to detect and control the water level. This can lead to loss of hydrocarbons when the water is drained or even damage to the electrostatic grids in desalination tanks due to the salty feed water. Multi phase density profiling is required to identify the different layers, including sand, for reliable, efficient process control. Level measurement is also required to ensure redundancy.

More details



VEGAFLEX 86

Level and interface measurement in the bypass

- High accuracy of the level in an external bypass chamber
- Shortenable rod probe allows great flexibility in project planning
- Reliable measurement, independent of process density, temperature and pressure

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VEGAPULS 6X

Level measurement with radar through isolation valve in the interface profiler.

- High-precision measurement independent of pressure, temperature or density
- SIL conformity according to IEC 61511 for functional safety
 - High dynamic range independent of dielectric constant, foam or varying hydrocarbons

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MINITRAC 31

Radiometric multiphase interface measurement in oil separators

- High-resolution density measurement with scintillation detectors that can detect the smallest changes in radiation absorption by different media
- Maintenance-free and accessible, as the sensors are installed outside the vessels

Show Product



PRO	PRO	PRO
VEGAFLEX 86	VEGAPULS 6X	MINITRAC 31
Show Product	Show Product	Show Product
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Measuring range - Distance	Measuring range - Distance	Measuring range - Distance
75 m	120 m	-
Process temperature	Process temperature	Process temperature
-196 450 °C	-196 450 °C	-40 60 °C
Process pressure	Process pressure	Process pressure
-1 400 bar	-1 160 bar	-
Accuracy	Accuracy	Accuracy
± 2 mm	± 1 mm	0.1 %
Version Coax version ø 21.3 mm with multiple hole Coax version ø 42.2 mm with single hole Coax version ø 42.2 mm with multiple hole	Frequency 6 GHz 26 GHz 80 GHz	Materials, wetted parts No wetted material Seal material
Exchangeable rod ø 16 mm Exchangeable cable ø 2 mm with gravity weight Exchangeable cable ø 4 mm with gravity weight Exchangeable cable ø 2 mm with centering weight Exchangeable cable ø 4 mm with centering weight	Beam angle ≥ 3° Materials, wetted parts	no media contact Housing material Aluminium Stainless steel (precision casting)
Materials, wetted parts 316L Alloy C22 (2.4602)	PTFE PVDF 316L PP	Protection rating IP66/IP67 Output
316	PEEK	Profibus PA
Threaded connection	Threaded connection	Foundation Fieldbus
≥ G ³ ₄ , ≥ ³ / ₄ NPT	≥ G¾, ≥ ¾ NPT	Four-wire: 4 20 mA/HART
Flange connection	Flange connection	Ambient temperature
≥ DN25, ≥ 1"	≥ DN20, ≥ ¾"	-40 60 °C
Seal material FFKM graphit and ceramic	Hygenic fittings Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 Variwent ≥ DN25	
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	 Varivent ≥ DN25 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A Hygienic flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection Ø 65 mm 	

