



Reliable

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

Cost effective

No shutdown required for maintenance

User friendly

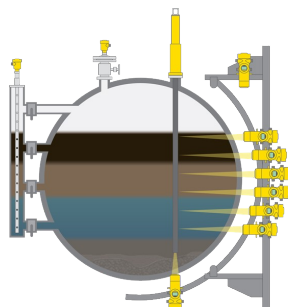
Standard instruments without PLC or special tools

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

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PRO	PRO	PRO
VEGAFLEX 86 Show Product	VEGAPULS 6X Show Product	MINITRAC 31 Show Product
		
Measuring range - Distance 75 m	Measuring range - Distance 120 m	Measuring range - Distance -
Process temperature -196 ... 450 °C	Process temperature -196 ... 450 °C	Process temperature -40 ... 60 °C
Process pressure -1 ... 400 bar	Process pressure -1 ... 160 bar	Process pressure -
Accuracy ± 2 mm	Accuracy ± 1 mm	Accuracy 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 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	Frequency 6 GHz 26 GHz 80 GHz Beam angle ≥ 3°	Materials, wetted parts No wetted material
Materials, wetted parts 316L Alloy C22 (2.4602) 316	Materials, wetted parts PTFE PVDF 316L PP PEEK	Seal material no media contact
Threaded connection ≥ G¾, ≥ ¾ NPT	Threaded connection ≥ G¾, ≥ ¾ NPT	Housing material Aluminium Stainless steel (precision casting)
Flange connection ≥ DN25, ≥ 1"	Flange connection ≥ DN20, ≥ ¾"	Protection rating IP66/IP67
Seal material FFKM graphit and ceramic	Hygienic fittings Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 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 SMS 1145 DN51	Output Profibus PA Foundation Fieldbus Four-wire: 4 ... 20 mA/HART
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)		Ambient temperature -40 ... 60 °C