Reliable

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

Cost effective

No shutdown required for maintenance

User friendly

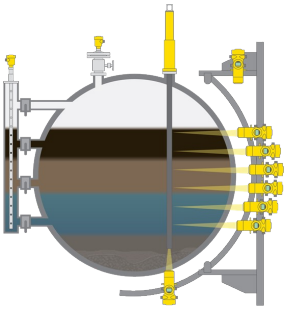
Standard instruments without PLC or special tools

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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VEGA HOME OF VALUES

PRO

VEGAFLEX 86

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Measuring range - Distance
75 m

Process temperature
-196 ... 450 °C

Process pressure
-1 ... 400 bar

Accuracy
± 2 mm

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

Materials, wetted parts
316L
Alloy C22 (2.4602)
316

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Seal material
FFKM
graphit and ceramic

Housing material
Plastic
Aluminium
Stainless steel (precision casting)
Stainless steel (electropolished)

PRO

VEGAPULS 6X

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Measuring range - Distance
120 m

Process temperature
-196 ... 450 °C

Process pressure
-1 ... 160 bar

Accuracy
± 1 mm

Frequency
6 GHz
26 GHz
80 GHz

Beam angle
≥ 3°

Materials, wetted parts
PTFE
PVDF
316L
PP
PEEK

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN20, ≥ ¾"

Hygenic 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
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

PRO

MINITRAC 31

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Measuring range - Distance
-

Process temperature
-40 ... 60 °C

Process pressure
-

Accuracy
0.1 %

Materials, wetted parts
No wetted material

Seal material
no media contact

Housing material
Aluminium
Stainless steel (precision casting)

Protection rating
IP66/IP67

Output
Profibus PA
Foundation Fieldbus
Four-wire: 4 … 20 mA/HART

Ambient temperature
-40 ... 60 °C