Reliable

Detection of leaks, corrosion prevention and safe operation

Cost effective

High-resistance materials for uninterrupted operation

User friendly

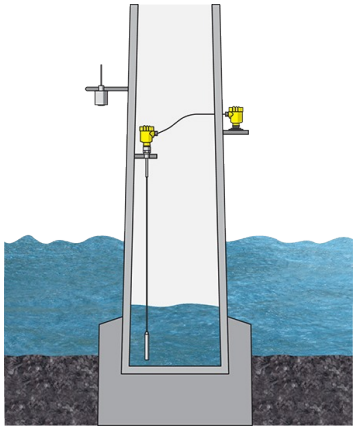
Simple mounting and setup

Wind turbine in an offshore wind farm

Measurement of water level

Wind turbines in offshore wind farms operate in an extremely harsh environment. Besides the buffeting of constant waves and often exceedingly strong winds, they have to withstand the corrosive effects of salt water. Due to the way the turbines are constructed and their location, it is inevitable that some seawater will enter the turbine tower. The water level inside the tower must be continuously monitored in order to detect any leaks at an early stage that can cause corrosion. To determine the mechanical loads and the generating capability of a wind power array, the tidal and wave height measurements on the outside are also required.

More details



VEGAFLEX 81

Level measurement with guided radar inside the tower of a wind turbine

- Easy setup and commissioning thanks to factory calibration
- User-friendly operation through separate electronics
- Corrosion-resistant materials guarantee a long service life

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VEGAPULS C 23

Non-contact level measurement with radar for determining tidal and wave heights

- Maintenance-free operation ensured through non-contact measuring method
- Fast measurement data logging guarantees high reliability
- Small sensor size and weight allow simple, one-man installation

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PRO

VEGAFLEX 81

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Measuring range - Distance
75 m

Process temperature
-60 ... 200 °C

Process pressure
-1 ... 40 bar

Accuracy
± 2 mm

Version
Basic version for exchangeable cable ø 2; ø 4 mm
Basic version for exchangeable rod ø 8 mm
Basic version for exchangeable rod ø 12 mm
Coax version ø 21.3 mm for ammonia application
Coax version ø 21.3 mm with single hole
Coax version ø 21.3 mm with multiple hole
Coax version ø 42.2 mm with multiple hole
Exchangeable rod ø 8 mm
Exchangeable rod ø 12 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
Exchangeable cable ø 4 mm without weight
exchangeable, PFA-coated cable ø4 mm with non-coated centering weight

Materials, wetted parts
PFA
316L
Alloy C22 (2.4602)
Alloy 400 (2.4360)
Alloy C276 (2.4819)
Duplex (1.4462)
304L

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Seal material
EPDM
FKM
FFKM
Silicone FEP coated
Borosilicate glass

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

BASIC

VEGAPULS C 23

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Measuring range - Distance
30 m

Process temperature
-40 ... 80 °C

Process pressure
-1 ... 3 bar

Accuracy
± 2 mm

Frequency
80 GHz

Beam angle
4°

Materials, wetted parts
PVDF

Threaded connection
G1, 1 NPT, R1

Protection rating
IP66/IP68 (3 bar), Type 6P

Output
4 … 20 mA/HART
Modbus
SDI-12