



### Reliable

Measurement optimizes pump usage via pump control functions

### Cost effective

Pump control ensures energy conservation and long pump service life

### User friendly

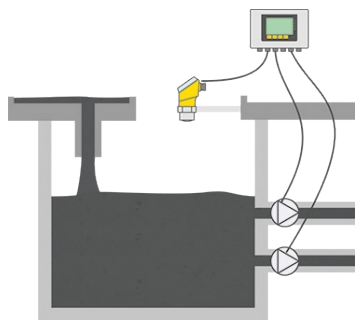
Easy setup and installation

## Sumps

### Sump level control

The level in the sumps around a refinery must be reliably monitored to prevent overflowing and subsequent pollution, or pump overload. Balanced pump utilization is possible thanks to a pump control rotation system integrated into the controller.

[More details](#)



### VEGAPULS 21

Radar sensor for continuous level measurement in sumps

- Very good signal focusing ensures accurate measurement, even in confined spaces
- Reliable measurement, unaffected by condensation on the antenna
- Maintenance-free operation thanks to non-contact measuring principle

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### VEGAMET 861

Controller for continuous lead-lag changeover control of pumps

- Integrated pump control function ensures longer pump service life
- Simple setup and installation reduces installation costs

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**VEGAPULS 21**  
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**Measuring range - Distance**  
20 m

**Process temperature**  
-40 ... 80 °C

**Process pressure**  
-1 ... 3 bar

**Accuracy**  
± 2 mm

**Frequency**  
80 GHz

**Beam angle**  
8°

**Materials, wetted parts**  
PVDF

**Threaded connection**  
G1½, 1½ NPT, R1½

**Seal material**  
FKM

**Housing material**  
Plastic

**VEGAMET 861**  
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**Protection rating**  
IP66/IP67, Type 4X

**Input**  
1 x 4 ... 20 mA/HART sensor input  
2x digital input

**Output**  
1 x 0/4 ... 20 mA current output  
1x failure relay (instead of operating relay)  
4x operating relay

**Ambient temperature**  
-40 ... 60 °C

**Measured value memory**  
Internally  
SD card