



### Reliable

Measurement optimizes pump usage via pump control functions

### Cost effective

Pump control ensures energy conservation and long pump service life

### User friendly

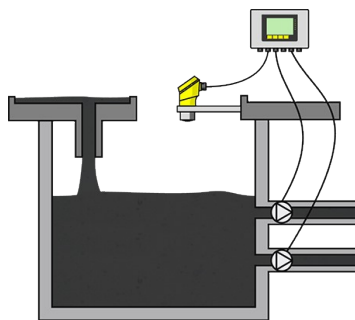
Easy setup and installation

## 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**  
[Show Product](#)

**VEGAMET 861**  
[Show Product](#)
**Measuring range - Distance**

15 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

**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