



## Sumps

### 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

### 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 signal conditioning instrument.



### VEGAPULS 64

Radar sensor for continuous level measurement in sumps

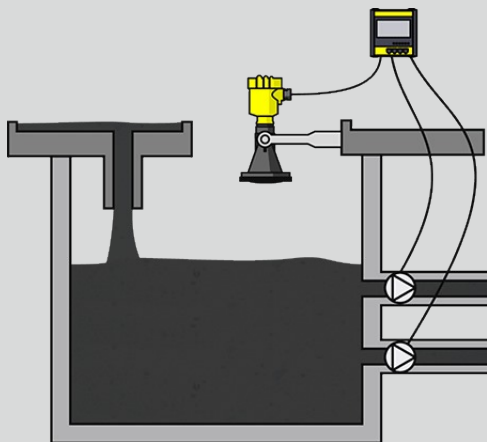
- Very good signal focusing ensures accurate measurement, even in confined spaces
- Reliable measurement, unaffected by condensation on the antenna
- Maintenance-free operation thanks to non-contact measuring principle



### VEGAMET 391

Signal conditioning instrument for continuous lead-lag changeover control of pumps

- Integrated pump control function ensures longer pump service life
- Simple setup and installation reduces installation costs
- Six relay outputs, one scalable current output





VEGAPULS 64	VEGAMET 391
<b>Measuring range - Distance</b> 30 m	<b>Protection rating</b> IP 20/IP 65
<b>Process temperature</b> -196 ... 200 °C	<b>Input</b> 1 x 4 ... 20 mA/HART sensor input with transmitter power supply
<b>Process pressure</b> -1 ... 25 bar	<b>Output</b> 1 x 0/4 ... 20 mA current output up to 6 x operating relay 1 x fail safe relay 1 x Ethernet or 1 x RS232
<b>Accuracy</b> ± 1 mm	<b>Ambient temperature</b> -20 ... 60 °C
<b>Version</b> with plastic horn antenna ø 80 mm Thread with integrated horn antenna Flange with encapsulated antenna system Hygienic fitting with encapsulated antenna system	<b>Signal input (specify)</b> 4 ... 20 mA/HART
<b>Materials, wetted parts</b> PFA PTFE 316L Alloy C22 (2.4602) PEEK	<b>Signal output (specify)</b> 4 ... 20 mA Operating relay Fail safe relay Ethernet RS232 Display
<b>Threaded connection</b> ≥ G¾, ≥ ¾ NPT	
<b>Flange connection</b> ≥ DN50, ≥ 2"	
<b>Hygienic fittings</b> Clamp ≥ 2", DN50 - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 DRD connection ø 65 mm for NEUMO BioControl D50 PN16 / 316L	
<b>Seal material</b> EPDM FKM FFKM	