



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

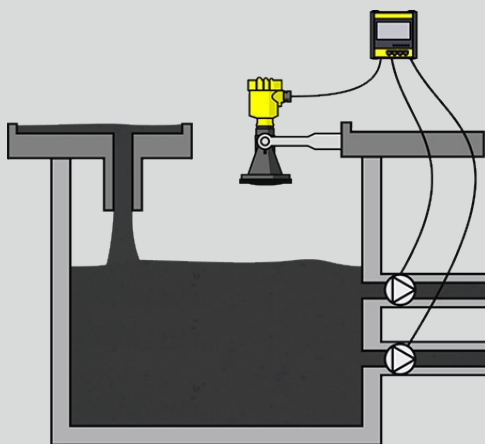
- Very good signal focusing ensures accurate measurement, even in confined spaces
- Reliable measurement, unaffected by condensation on the antenna
- Maintenance-free operation thanks to non-contact measuring principle



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