



Coarse and fine screens

Differential water level measurement for control of screen raking

Mechanical cleaning removes entrained floating matter with screens or sieves. This protects the downstream process stages from buildup, clogging and abrasion. Solids with diameters greater than 25 mm are trapped in the coarse screens, compressed in a press and then disposed of. Finer secondary screens remove smaller residual materials. Measurement of the difference in water level between the front and the back of the screen determines the degree of contamination and initiates the cleaning of the screen when necessary.

- Reliable
- Reliable control of screen cleaning
- Cost effective
- Non-contact and wear-free measurement
- User friendly
- Maintenance-free operation of the system



VEGAPULS C 21

The radar sensors measure the water level difference between the front and back of the rake screen

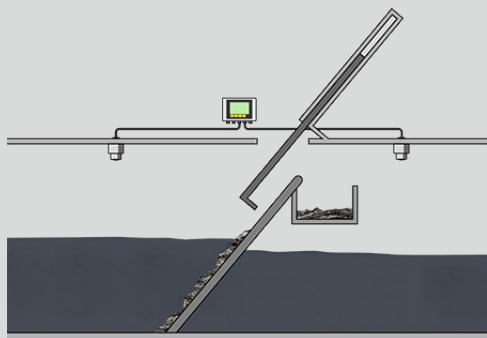
- Exact measuring results unaffected by ambient conditions
- High plant availability thanks to wear and maintenance free measurement
- Secure wireless operation via Bluetooth with smartphone, tablet or PC



VEGAMET 842

Controller for measured value processing and display

- Universal controller for two analogue sensors for differential measurement
- Analogue outputs for connection to process control systems
- Fast setup via simple menu navigation and application wizards





VEGAPULS C 21	VEGAMET 842
Measuring range - Distance 15 m	Protection rating IP66/IP67, Type 4X
Process temperature -40 ... 80 °C	Input 2 x 4 ... 20 mA sensor input
Process pressure -1 ... 3 bar	Output 3 x operating relay 1x failure relay (instead of operating relay) 2x 0/4 ... 20 mA current output
Accuracy ± 2 mm	Ambient temperature -40 ... 60 °C
Frequency 80 GHz	
Beam angle 8°	
Materials, wetted parts PVDF	
Threaded connection G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1	
Seal material FKM	
Protection rating IP66/IP68 (3 bar), Type 6P	