Sludge drying

Reliable

Reliable monitoring of belt loading

Cost effective

Optimal equipment operation

User friendly

Simple external installation

Measurement of belt loading and mass flow in a thermal sludge drying facility

Through drying, the weight and volume of the sludge is further reduced. In the thermal drying unit, which is equipped with a belt drier and a hot (+80 to +130 °C) air stream, water is removed from the sludge through evaporation. The continuous monitoring of belt loading is done by means of radiometric, i.e. radiation-based, measurement - this technique allows optimal, cost-effective dryer control.

VEGAMET 391

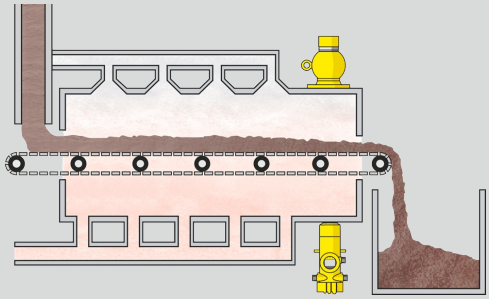
Power supply for sensor, measurement data processing and display

- Simple regulation and control of level and pressure measuring instruments
- Analogue and digital outputs for connection to process control systems
- Large measured value display

MiniTrac 31

Continuous monitoring of belt charging

- Non-contact measurement of the sludge level in the dryer
- Simple retrofitting during operation
- Optimal, cost-effective dryer control



VEGAMET 391
Protection rating IP 20/IP 65
Input 1 x 4 … 20 mA/HART sensor input with transmitter power supply
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
Ambient temperature -20 ... 60 °C
Signal input (specify) 4 … 20 mA/HART
Signal output (specify) 4 … 20 mA Operating relay Fail safe relay Ethernet RS232 Display

MiniTrac 31
Measuring range - Distance -
Process temperature -40 ... 60 °C
Process pressure -
Accuracy 0.1 %
Materials, wetted parts No wetted material
Seal material no media contact
Housing material Aluminium Stainless steel (precision casting)
Protection rating IP 66/IP 67
Output Profibus PA Foundation Fieldbus 4 … 20 mA/HART - four-wire
Ambient temperature -40 ... 60 °C