

#### Reliable

Reliable operation despite extreme process conditions

## Cost effective

Density measurement from the outside, without invasive changes to the pipe

### **User friendly**

Optimized for the application, long-term maintenance-free measurement



## Density measurement in liquor recovery

The black liquor resulting from pulp cooking is regenerated and fed back into the digester. Liquor regeneration comprises several process steps. The processes take place at high temperatures and pressures; the media are aggressive and sometimes abrasive. Density measurement of the liquor in the pipelines is required for eco-friendly and energy-efficient process control.

### More details



## **MINITRAC 31**

Density measurement with radiation for energy-efficient liquor regeneration

- Enables automation of liquor regeneration process
- Non-contact measurement right through the vessel wall
- Maintenance-free operation

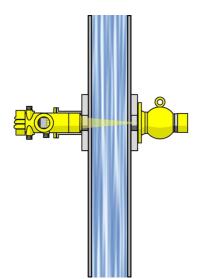
## **Show Product**

## **VEGASOURCE 31**

The source holder serves as a housing for the radiation capsule and protects it from external influences

- Minimal space requirements and simple mounting
- · Operational reliability and safety with pneumatic shutter on the source holder
- Optimum shielding allows use without a restricted access area

# **Show Product**







MINITRAC 31	VEGASOURCE 31
Show Product	Show Product
Measuring range - Distance -	Ambient temperature
	-20 80 °C
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	
IP66/IP67	
Output	
Profibus PA	
Foundation Fieldbus	
Four-wire: 4 20 mA/HART	

Ambient temperature -40 ... 60 °C

