



#### Reliable

Maximum safety through approvals according to SIL

#### Cost effective

Reliable density measurement ensures high plant availability

#### User friendly

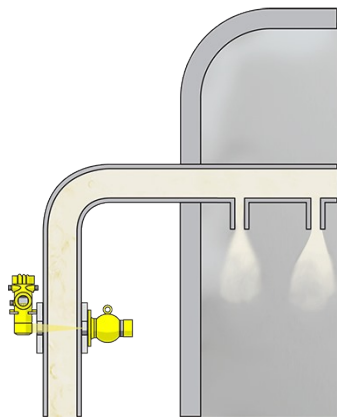
Maintenance-free through non-contact measurement

## Lime milk pipeline

### Density measurement in lime milk

The flue gas enters the scrubbing tower (absorber) and cools down further. Here the lime milk (gypsum suspension) is sprayed into the flue gas to wash out the SO<sub>2</sub> gas component. The sulphur dioxide is converted into calcium sulphite, which then falls into the absorber sump. To ensure effective flue gas desulfurization, the lime milk (gypsum suspension) must always have a certain density. Radiation-based measurement is used to ensure this.

[More details](#)



### MINITRAC 31

Radiation-based density measurement ensures efficient desulfurization

- Non-contact density measurement from the outside, right through the pipeline
- High system availability ensured through wear and maintenance-free operation
- Accurate measuring result, approval according to SIL2

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### VEGASOURCE 31

The source container serves as a receptacle and shield for the radioactive source

- Focuses the radiation
- Protects the surroundings from gamma radiation
- Minimal space requirements and simple mounting

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**MINITRAC 31**  
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**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**

IP66/IP67

**Output**
Profibus PA  
Foundation Fieldbus  
Four-wire: 4 ... 20 mA/HART
**Ambient temperature**

-40 ... 60 °C

**VEGASOURCE 31**  
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**Ambient temperature**

-20 ... 80 °C