



#### Reliable

Safe measurement even under extreme conditions

#### Cost effective

Reduced need of foam agents thanks to continuous foam monitoring

#### User friendly

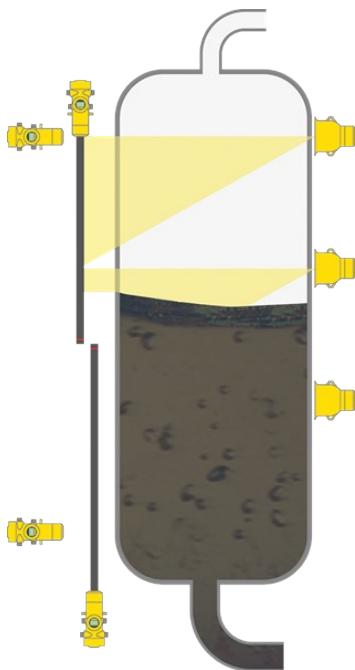
Easy installation

## Coke drums

### Density, level measurement and point level detection in coke drums

Delayed coking units are a critical step in the refining process - this is where downtime, inefficiency, and overflow are not an option. They generate extreme heat during operation and are very large vessels. By monitoring upper vapour phase density, operators can reduce antifoam carry-over and improve continuous productivity with accurate level measurement.

[More details](#)



#### FIBERTRAC 31

Radiation-based sensor for continuous level measurement in coke drums

- Lightweight construction eliminates need for cranes or special rigging for mounting
- Long detector length minimizes the need for additional platform construction
- RS485 gauge to gauge communication network offers extensive diagnostics and reduced troubleshooting time

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#### MINITRAC 31

Radiation-based density and point level measurement in coke drums

- Non-contact measurement unaffected by fluid viscosity, deflection or refractive properties
- Monitors anti-foam injection effectiveness
- RS485 gauge to gauge communication network offers extensive diagnostics and reduced troubleshooting time
- Re-zeroing of the system with each cycle improves accuracy

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PRO

PRO

**FIBERTRAC 31**  
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**MINITRAC 31**  
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**Measuring range - Distance**  
 7 m

**Process temperature**  
 -

**Process pressure**  
 -

**Accuracy**  
 $\pm 0.5 \%$ 
**Density**  
 Density

**Materials, wetted parts**  
 No wetted material

**Threaded connection**  
 Mounting from outside via supplied mounting brackets

**Seal material**  
 no media contact

**Housing material**  
 Aluminium  
 Stainless steel (precision casting)

**Protection rating**  
 IP66/IP67

**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