



#### Reliable

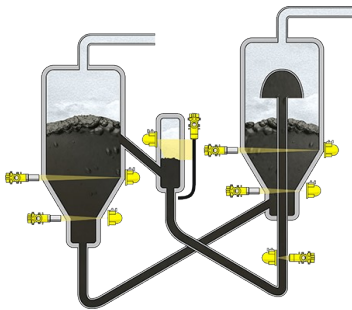
Non-invasive measurement ensures highest plant availability

#### Cost effective

Lightweight design reduces mounting costs

#### User friendly

External mounting does not interrupt the process



## Fluid catalytic cracking unit

### Density, level measurement and point level detection in the reactor

Fluid Catalytic Cracking (FCC) is one of the most important conversion processes used in petroleum refineries. As with many other refining applications, the vessels in the reactor system need to be operated and controlled at their optimum levels, as this is critical for the process productivity. Maintaining the proper levels also ensures that the expensive catalyst is used at maximum efficiency, with no waste.

#### [More details](#)



#### POINTRAC 31

Radiation-based sensor for point level detection

- Accurate measuring results independent of process conditions
- Non-contact operation is unaffected by buildup
- External mounting does not interrupt the process

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#### FIBERTRAC 31

Radiation-based sensor for continuous level measurement

- Lightweight construction eliminates need for cranes or special rigging for mounting
- Long detector length minimizes the need for additional platform construction

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#### MINITRAC 31

Radiation-based sensor for density measurement

- Compact and lightweight detector mounts easily
- External mounting does not interrupt the process
- Non-contact technology measures through vessel walls and obstructions
- Simple and intuitive setup

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PRO

**POINTRAC 31**  
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**Measuring range - Distance**  
-

**Process temperature**  
-40 ... 60 °C

**Process pressure**  
-

**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  
8/16 mA/HART - four-wire

**Ambient temperature**  
-40 ... 60 °C

PRO

**FIBERTRAC 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

PRO

**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