

# Empty detection with RN6004 in fly ash

## The Challenge



A manufacturer of wood gasifier systems had the application of an empty detection in a reactor vessel. The sensor should reliably detect ash. The process temperature range is up to 250 ° C. The application is sticky and very dusty. The sensor should therefore be robust, insensitive but sensitive enough to guarantee a reliable empty detection of the reactor.

## Our Solution

A rotary sensor with a graphite shaft seal is used, which can withstand temperatures up to 350 ° C. The extension of the sensor is made of stainless steel. The sensitivity is 100g / l. An advantage of the rotary paddle detector is that it functions reliably despite caking.



## Products



### RN 6004

**Full, Demand, Empty Detector**  
Protection tube version

- Horizontal, vertical and oblique installation.
- Extremely robust due to protection tube, able to withstand heavy mechanical load.
- Increased space within housing allows for easy of access for wiring.
- Flameproof version available for use within potentially explosive atmospheres (gas).
- SIL 2 certified.