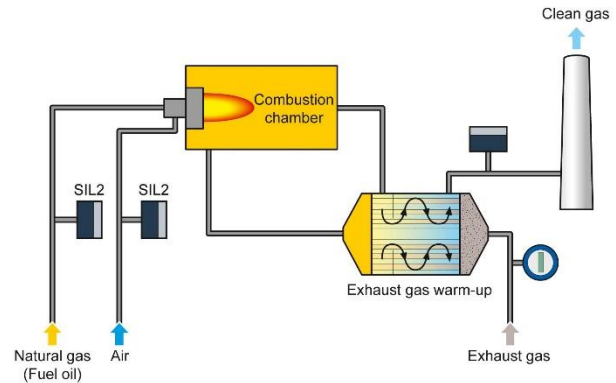


## VOC Exhaust Gas Measurement

The Höntzsch Vortex sensor with ATEX and SIL certification measure the flow rate of inflowing, solvent-containing exhaust air to manage combustion processes in a combustion plant with aggressive and explosive process gases, flare and waste gases. The sensor is ATEX Zone 2 and SIL2 approved.

- **Robust:** Our vortex sensor has no moving parts. It is available in stainless steel, titanium or Hastelloy. Optimal use for solvent-containing exhaust air (VOC) in the RCO process.
- **Economically:** Longevity and minimal maintenance effort result in low operating expenses in the combustion plant.
- **Tried and tested:** Höntzsch vortex sensors are used in many, partly quite challenging applications and deliver reliable measuring results.



### Application

Thermal post-combustion is an exhaust air and exhaust gas cleaning process. Air hygienically it's an optimal process because exhaust air/exhaust gases except for sulphur, halogen or other thermally non-decomposable foreign substances are turned into the non-hazardous substances water (H<sub>2</sub>O) or carbon dioxide (CO<sub>2</sub>). The process is perfectly suited for VOC laden gases starting at 1g/Nm<sup>3</sup> at a VOC precipitator efficiency over 99.8 %. That way required limit values can be adhered to.

Fast start and stop allow the use under highly fluctuating process conditions.

Special flow sensors can measure inflow of exhaust gases to the post-combustion plant and therefore regulate the process, guaranteeing optimal combustion.



*Vortex Probe VA 40 ZG7: standard compact unit, variable insertion depth*

### Process data

- Measuring points: supply point of exhaust air, supply point of natural gas, supply of air in TNV (RTO), exhaust air after the TNV
- Measuring range: typically 5 to 15 m/s



*Handheld Unit Flowtherm ex: multifunction with datalogger, ex-proof*