



Product News

ENVEA - SWR engineering: Achieving Compliance with the permitted Dust Values

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Schliengen, Germany -

Application



ProSens – Application.

A manufacturer of processed foods refines dairy products. The dust-laden exhaust air produced during the manufacturing process is extracted and cleaned by industrial filter systems. With increasing wear of the filter elements, the dust content in the exhaust air can rise and lead to an increased environmental pollution. A continuous dust measurement (mg/m^3) is even officially prescribed

for this process. This requirement is met by the plant operator with the installation of a calibrated electrodynamic measuring device.

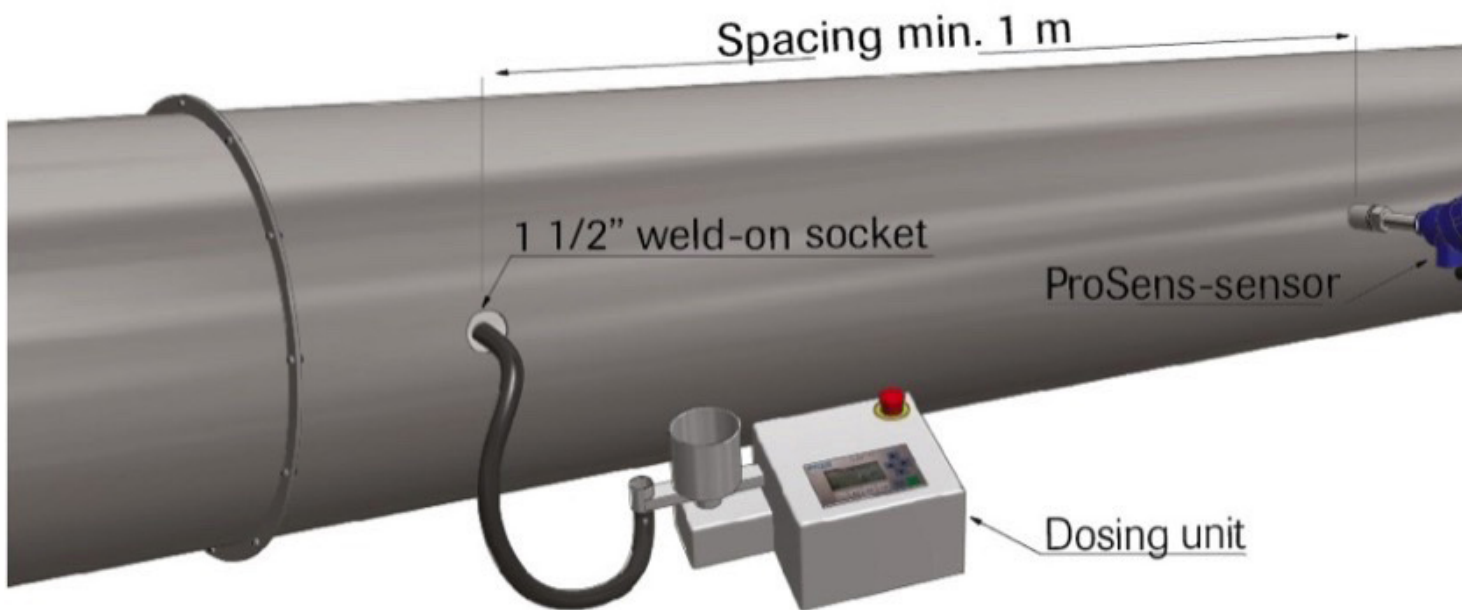
Process Data

- *Customer:* Food manufacturer (Germany)
- *Product:* Dairy product powder
- *Permitted limit:* 20 mg/m³
- *Installation location:* Clean gas side after a dust cyclone
- *Function:* Continuous dust measurement

Solution

The ProSens system can be calibrated and continuously monitors clean gas sides after filter elements for permissible dust concentrations.

The Calibration Process



ProSens – Dosed-Reference-Method

Thanks to the Dosed-Reference-Method developed by ENVEA - SWR engineering, the ProSens can be calibrated quickly and reliably in the customer's plant. For this purpose, only a representative sample of the customers filter dust, the specification of the desired limit value with regard to the dust concentration and some process data such as volume flow are required in advance. With this

information, a special dosing device can be set up in advance, so that the technician can then specify the desired dust concentration for the sensor to be calibrated as a reference at the customer's site.

Customer Benefits

- Robust, durable, process-reliable sensor (ProSens)
- Easy, fast and verifiable calibration (Dosed-Reference-Method)
- Assured compliance with permitted limit values (mg/m³)