Application Report
Flow Sensors

Biological Waste Treatment

Description of the application:

To reduce the volume of household waste the organic components will be washed out by a bio-mechanical method called BIOPERCOLAT method. For this the garbage is hackled and then overflowed with water. The water washes out the biological components which afterwards are reduced by aerobic bacteria (called Perkolation process).

This bacteria need air for their live wich is injected through lances.
The fresh air volume flow must be supervised, since it is of high influence to the efficiency of the process. Additionally this exact regulation saves energy.

The output of the SCHMIDT flow sensor is connected to an on-site volume flow display and at the same time connected to a PLC, which monitors and controls the flow rate of the fres air injection lances.

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Sensor SS 20.60 in right main pipe

On-site display of volume flow

Function of the Sensor:

Measurement of volume flow in the main pipes of fresh-air intake to the Percolator.

Sensor type used:

SCHMIDT® SS 20.60
0..40 m/s, 180 mm, 4..20 mA

Location of the Sensor:

Main air pipes DN 150.

Branch:

Plant construction / Environmental technology

Reasons to choose SCHMIDT:

- ☑ Simple and quick mounting
- ☑ No pressure loss
- ☑ Goor price / performance ratio

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