



RusAutomation

MicroFlow



# MICROFLOW

Measurement of pneumatically conveyed bulk goods

## Applications

Ideal for controlling and regulating secondary fuels as well as for monitoring limit values and quantity balancing: MicroFlow **reliably detects** the mass flow of pneumatically conveyed bulk goods in metallic pipes.

MicroFlow operates mostly **independently of temperature and pressure** and is also suitable for use with small quantities. Contact-free measurement directly in the pipe virtually eliminates the possibility of mechanical wear and tear.

MicroFlow is accurate between 2% and 5%, depending on the location of the sensor and the particle flow profile. To improve accuracy, especially in pipes with large diameters, 2 sensors can be connected to calculate an average value.

## Mechanism

The sensor uses microwaves to perform its measurements. It transmits a measurement frequency from its front side. The reflected signal is used to calculate

the mass flow directly using a patented process and is read out as an analog signal proportional to the mass flow rate. The signal is evaluated by the software supplied with the solution.

## Your advantages

- **Dust-free inline monitoring.**
- **Reliable, durable, maintenance-free:** Sensor is flush mounted to prevent mechanical wear and tear.
- **Easy self-installation in existing pipes.**
- **Simple to recalibrate.**
- **Records no-load and production downtime.**

We offer a wide range of load cells in addition to the products shown – just give us a call!

### Technical data

Operating temperature	-20 to +60 °C
Supply voltage	20 to 30 VDC
Power consumption	Max. 0.5 A
Storage temperature	-25 to +75 °C (without condensation)
Temperature inside pipe	-20 to +150 °C
Max. pressure inside pipe	80 bar, optional 200 bar
Housing protection class	IP 66, optional IP 67
Seal	-10 to +40 °C compensated