Solids Flow Meter

DYNAMIC FLOW.

Bulk flow measurement in pipes: pneumatic conveying, or freefall.

Accuracy: ca. ±5%.
**Measuring Principle:**

DYNAMIC FLOW uses the principle of the Doppler effect. A microwave signal is emitted, thereby generating an electromagnetic field inside the pipe. The particles moving through this field generate a signal that varies in amplitude and in frequency.

The rate of flow is deduced from a mathematical analysis combined with a calibration (with real measures).

**Advantages:**

Beyond the working principle, the technology developed for DYNAMIC FLOW allows the equipment to compensate for variations in:

- Particle concentration
- Speed of particles
- Grain size
- Temperature

**Better accuracy and repeatability – better long-term stability.**

- Non-contact measurement
- Easy-to-use device
- Maintenance-free
- Without external control unit

**Included FLOWcontrol software:**

Once calibrated using FLOWcontrol, the device runs completely autonomously, without a PC connected.
Application examples:

- Coal
- Cement
- Bauxite
- Animal feed
- Power plant
- Wood industry

Flow
Technichal Specifications:

- **Housing material:** Aluminum, painted; or stainless steel 1.4404 (depending on the model)
- **Dimensions:**
  - Housing: 134 x 90 x 52 mm;
  - Wave guide: 150 ... 300 x Ø 20 mm
  (other lengths on request)
- **Weight:** 1.2 kg
- **Protection:** IP 66
- **Ambient temperature:** -20 °C ... +60 °C
- **Product temperature:**
  - Standard: -20 °C ... +70 °C;
  - Optional: -20 °C ... +200 °C
- **Pressure:** < 80 bars
- **Outputs:**
  - 2 analogue outputs, 4 ... 20 mA, max. charge 500 Ω;
  - 1 pulse output for counter pulses
  (for external voltage max. 300 V AC / DC)
- **Certifications:**
  - Standard: CE
  - Optional: ATEX II 1 / 2 D; ocalypted III C T100°C Da/Db IP67
- **Supplied cables:**
  - 1 connection cable M12, length 5 m
  - 1 USB cable, length 1.8 m
- **Operating software:** FLOWcontrol
- **Software languages:** German, english, french, hungarian
- **Optional accessories:** Valve set, sight glass fitting with mounting bracket, display, power supply

Installation im Rohr:

1) Drilling.
2) Welding.
3) Screwing in.

included adaptor