

# SOLIDS FLOW METER

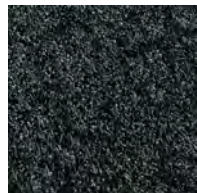
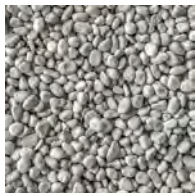
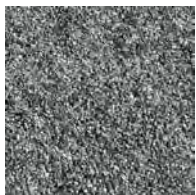
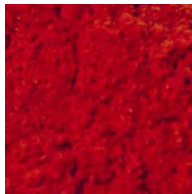


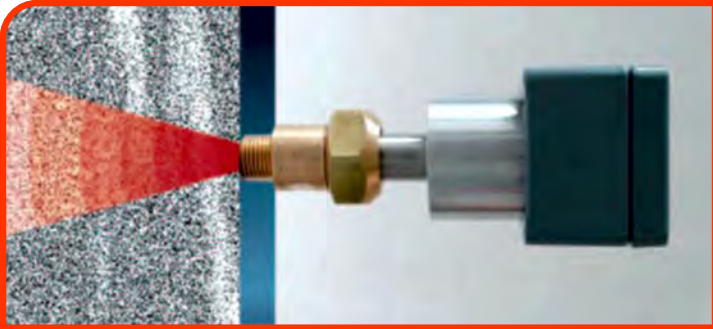
DATA SHEET

## Solids Flow Meter DYNAMIC FLOW.

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

Accuracy: ca.  $\pm 5\%$ .





Measuring Principle

## 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.



# SOLIDS FLOW METER



Application examples:

Cement



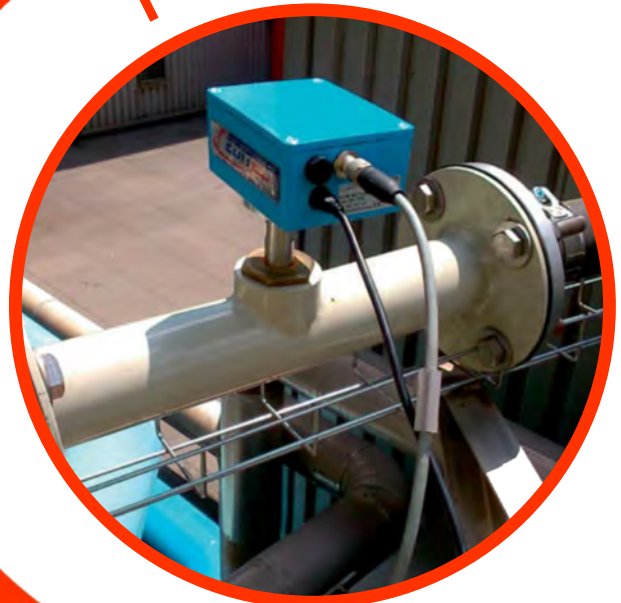
Coal



Bauxite



FLOW



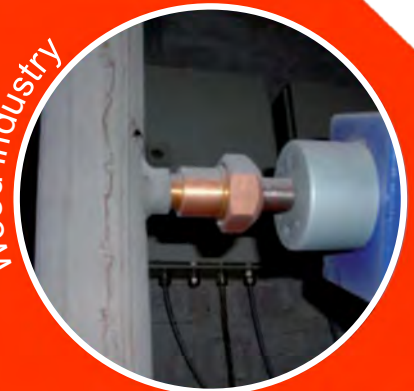
Animal feed



Power plant



Wood industry



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## Technical 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)  
Optional: MODBUS

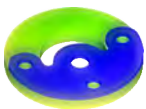
Certifications: Standard: CE  
Optional: ATEX II 1 / 2 D;  $\text{Ex}$  ta/tb IIIC T100°C Da/Db IP67

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

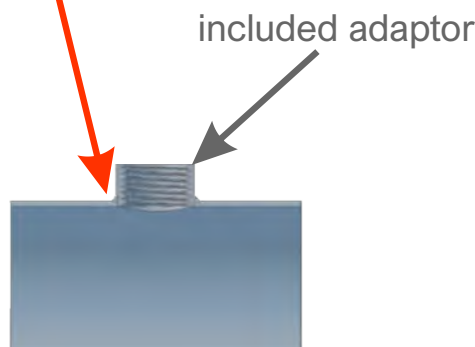


## Pipe Mount Installation:

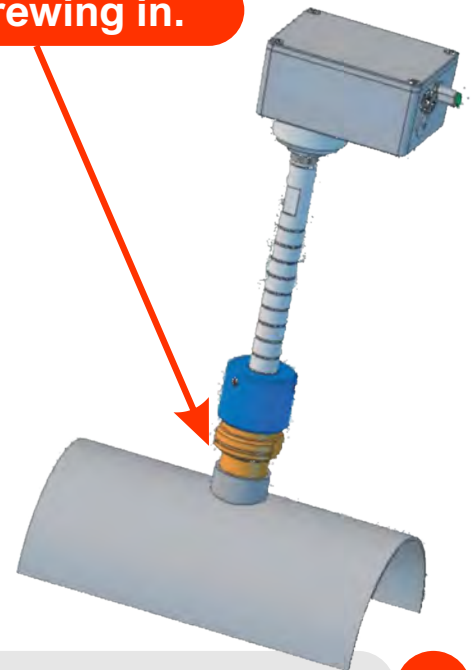
### 1) Drilling.



### 2) Welding.



### 3) Screwing in.



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*Any question?*

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