SOLIDS FLOW METER
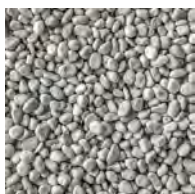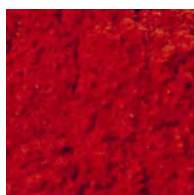
Solids Flow Meter
DYNAMIC FLOW.

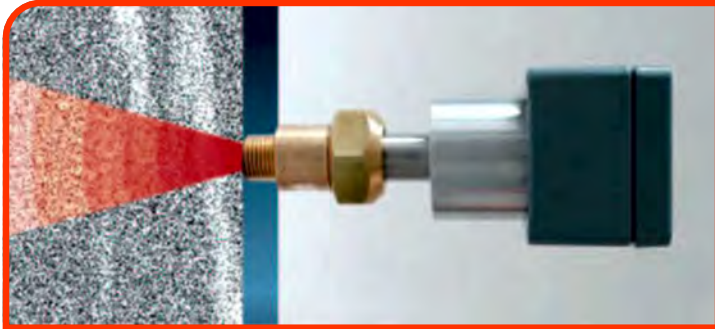Bulk flow measurement in pipes: pneumatic conveying, or freefall.

Accuracy: ca. ±5%.

Alternative to the former Thermo Ramsey GMR 130 detector.

SOLIDS FLOW METER

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.

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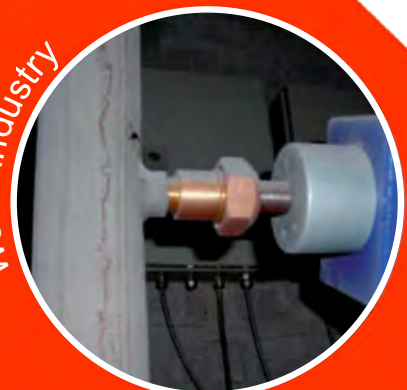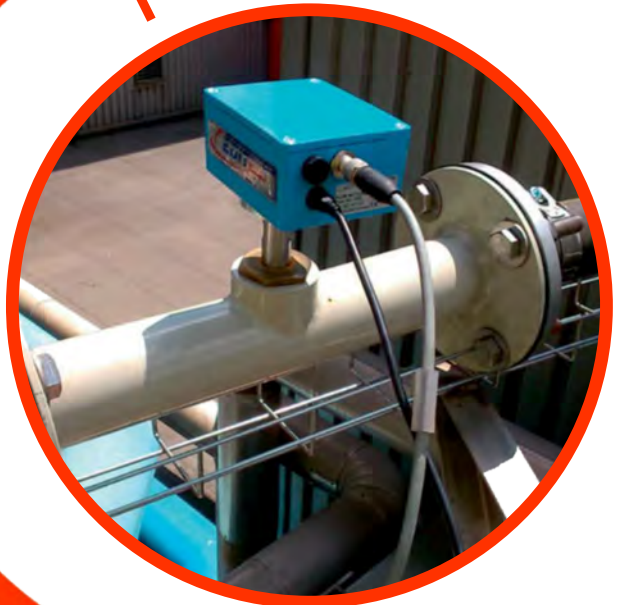**Application examples:**

Cement

Coal

Bauxite

Flow

Animal feed

Power plant

Wood industry

SOLIDS FLOW METER

Technical Specifications:

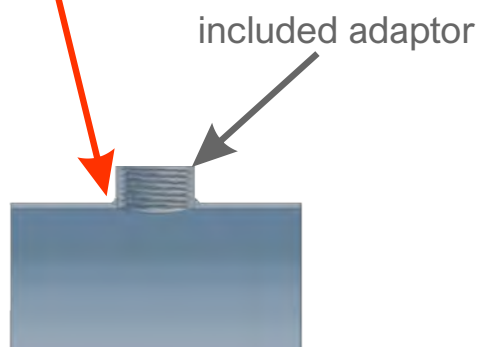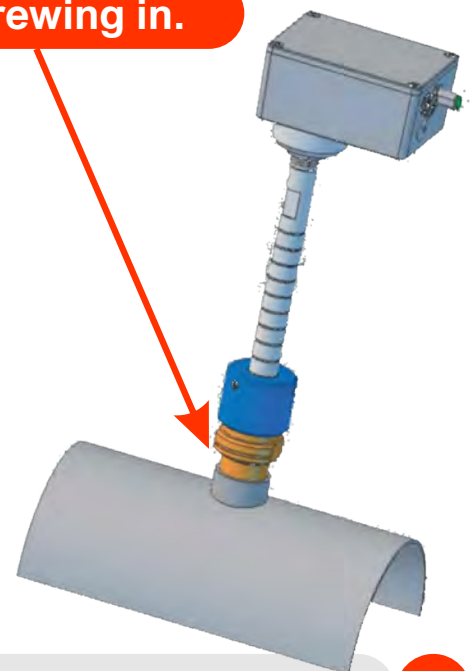|	
Housing material:	Aluminum, painted; or stainless steel 1.4404 (depending on the model)
Dimensions:	Housing: 134 x 90 x 52 mm;
	Wave guide: 150 ... 300 x Ø 20 mm
	(other lengths on request)
Weight:	1.2 kg
Protection:	IP 66
Ambient temperature:	-20 °C ... +60 °C
Product temperature:	Standard: -20 °C ... +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; ⟨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, Chinese (simple)
Optional accessories:	Sight glass fitting, power supply unit, damper kit, valve set, display

Pipe Mount Installation:

1) Drilling.

2) Welding.

3) Screwing in.

included adaptor