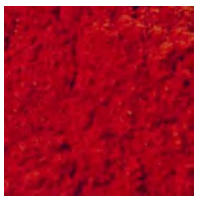
SOLIDS FLOW DETECTOR

DATA SHEET

FLOW NO FLOW
Solids Flow Detector.

Bulk solids flow detection
in closed pipes or free-fall applications.

Alternative to the former
Thermo Ramsey **DTR 131 detector.**







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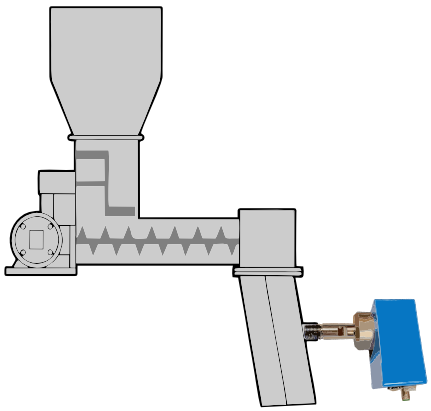
FLOW NO FLOW Solids Flow Detector

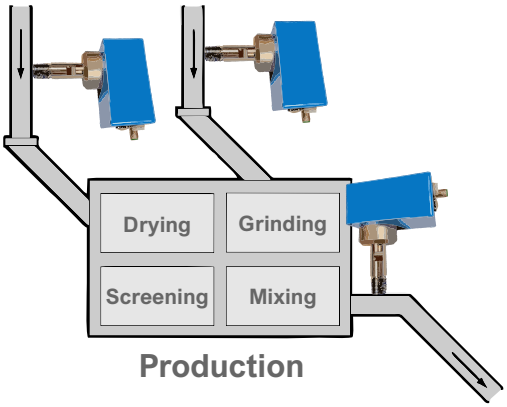
Solids flow detectors detect if bulk material is flowing or not. EmWeA flow detectors are using the last microwave technologies to insure the best accuracy, independent of the process or product variations.

Application Examples:

Screw feeder output

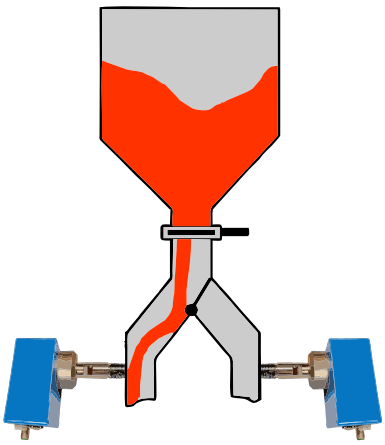


Phases of a process

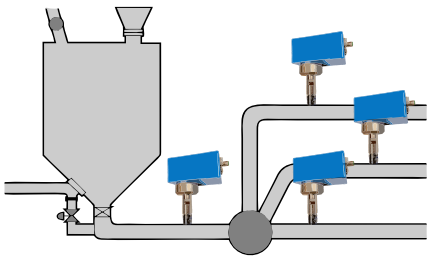


Production

Silo discharge

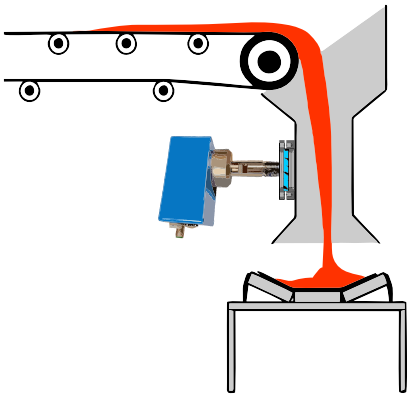


Pneumatic injection

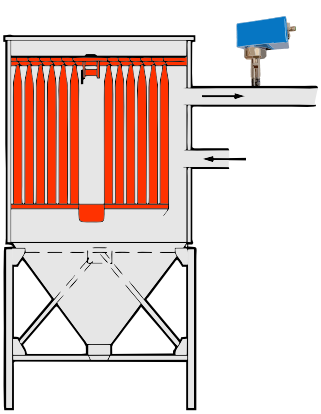


Manifold / Diverter

Transfer point



Bag filter monitoring



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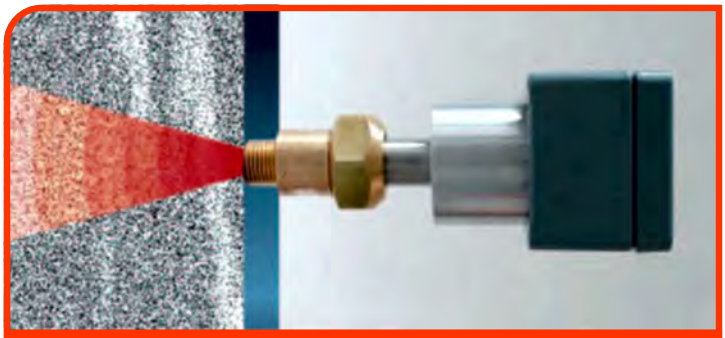


Measuring Principle

Measuring Principle:

The FLOW NO FLOW solids flow detector uses the Doppler effect. A microwave signal is emitted and creates an electromagnetic field. The particles moving through this field generate a signal whose amplitude and frequency change depends on the particle flow.

Benefits:

In addition to the actual detection, the FLOW NO FLOW solids flow detector also compensates for all changes in:

- Particle concentration
- Velocity
- Grain size
- Temperature

High reliability and reproducibility - high long-term stability.

- Non-contact measurement
- Easiest operation
- Maintenance free
- Without an external control unit

FLOWcontrol Software included:

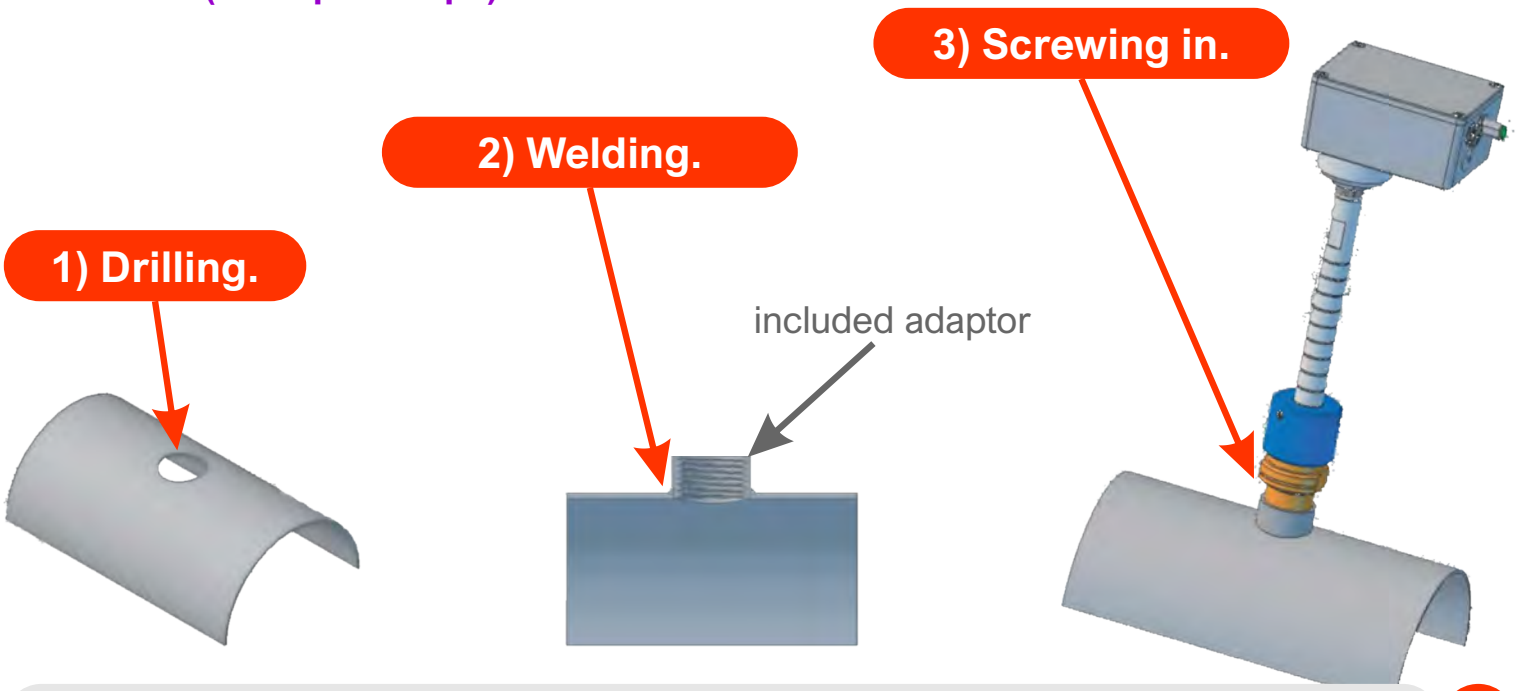
After calibration using FLOWcontrol, the device works completely independently, without any PC connected.

SOLIDS FLOW DETECTOR

Technical Specifications:

Housing material:	Aluminum, painted; or stainless steel 1.4404 (depending on model)
Dimensions:	Housing: 134 x 90 x 52 mm; Probe: 150 x Ø 20 mm (other lengths on request) Compact device: 215 x Ø 48 mm
Weight:	1.2 kg
Type of protection:	IP 66
Ambient temperature:	-20 °C ... +60 °C
Product temperature:	Standard: -20 °C ... +70 °C; Optional: -20 °C ... +200 °C
Pressure:	< 80 bar
Outputs:	1 relay output, max. 30 V AC / DC, 80 mA
Certifications:	Standard: CE Optional: ATEX II 1 / 2 D; Ex ta/tb IIIC T100°C Da/Db IP67
Cables included:	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

Installation (Example in Pipe):



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