

Weighing & Inspection



W&I FlowNoFlow The non-contact solid flow switch



Weighing & Inspection Benelux

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RELIABLE FLOW-SWITCH FOR CONVEYED SOLIDS

The W&I FnF is a microwave-based mass flow switch. The electronics are mounted in the sensor head. The sensor reliably measures the mass flow of:

- all moving powder
- grain

The W&I FnF is offered as a replacement for the Thermo Ramsey™ Granuflow (Model DTR & GTR).

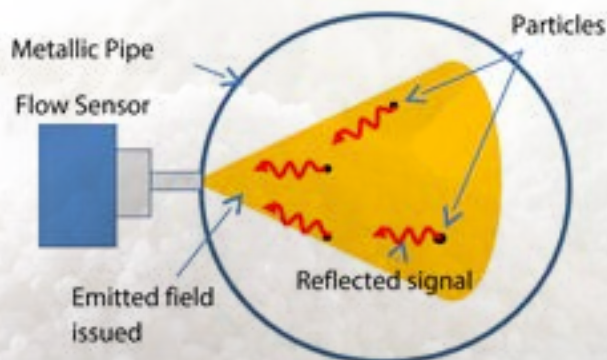


FEATURES

- Easily retro-fitted to existing pipes
- Only detects moving particles
- Jumper-free board
- Configured using software
- Set-up does not require opening the sensor - communicates with software via the sensor's USB port

BENEFITS

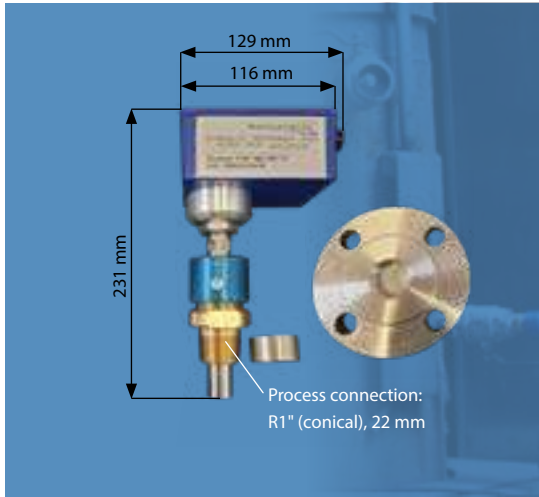
- Temperature stabilisation - normally only available on high-end flow-meters
- Drift-free system
- Wide operating range - not affected by pressure or temperature



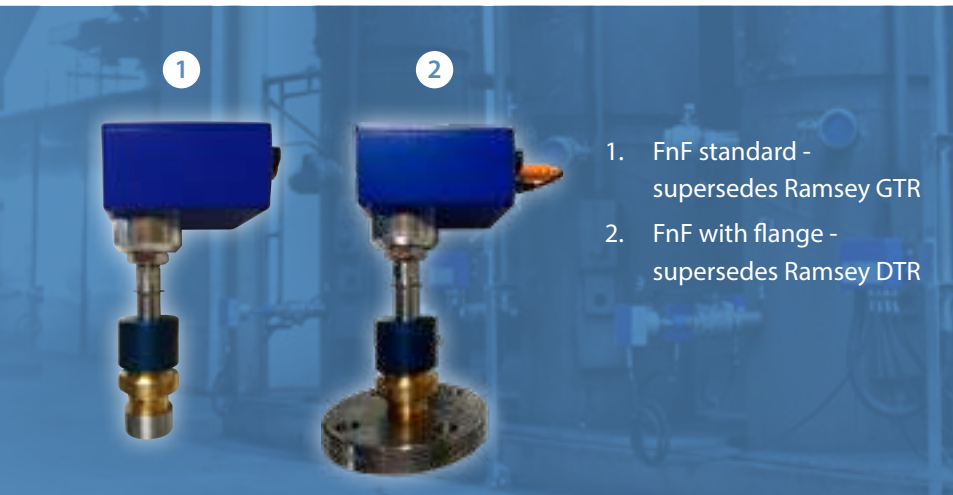
PRINCIPLE OF MEASUREMENT

1. The wave guide (stainless steel) leads the microwave into the pipe.
2. The microwave reflected from the particles is measured and analysed by an algorithm and converted into a flow proportional signal.
3. The flow meter provides a relay switch.
4. The sensor transmits a frequency of 24.125 GHz.

SENSOR SPECIFICATIONS



Supply voltage	24 VDC
Current	less than 0,4 A during heat up ~0,35 A after three minutes ~0,1 A
Measuring frequency	K – belt (24, 125 GHz)
Temp.-range in pipe	-20° C to 70° C
Ambient temperature	-20° C to 60° C
Pressure in pipe	max 8 bar
Sensor housing	stainless steel and aluminium
Dimensions	see technical drawing
Type of protection	IP 66
Mounting plug	1/2" NPT or Whitworth
Options	Atex, full stainless steel housing Temp up to 300° C inside pipe flow-rates start from 1 kg/h



SCOPE OF SUPPLY

- Flow transmitter
- Weld on bushing, stainless steel
- M12 connection cable, 5m, shielded
- USB cable, 3m
- Software on USB stick

SOFTWARE

- Windows-based
- Sensor connects to the PC via USB cable
- Immediate insight into flow conditions in the pipe
- Graphic visualization
- Detects flow problems such as partially blocked rotary feeders
- User-friendly interface in English, French and German



OUR OTHER SOLUTIONS

DYNAMIC WEIGHING

- A Belt weighing
- B Volume measurement - belt weighing
- C Impact flow measurement
- D Screw weighing



STATIC WEIGHING

- A Load cells
- B Weighing platforms



ON-BOARD WEIGHING



DOSING

- A Batch weighing
- B Loss in weight



LEVEL SWITCHES, FLOW DETECTION AND FLOW MEASUREMENT



MOISTURE MEASUREMENT



BELT SAFETY



CHECK WEIGHERS



METAL DETECTION



X-RAY INSPECTION



TEST CARDS FOR METAL DETECTION

