

SF METER

Online Solids Flowmeter for Bulk Industries



Solids flow detection or measurement

- Specially developed for the Bulk Industry
- Measures solids flow in all metallic pipes or chutes
- Flow measurement in lbs/hr, tons/hr, kg/hr, or g/hr
- Works in dilute-phase pneumatic or free fall convey lines
- Optimize, monitor, control, or quantify your process for maximum performance and yield
- Also measures product velocity in m/s with a 2nd 4-20mA output

Working principle



SF METER (Solids Flow) uses the principle of the Doppler effect. A microwave signal is emitted, thereby generating an electromagnetic field inside the pipes.

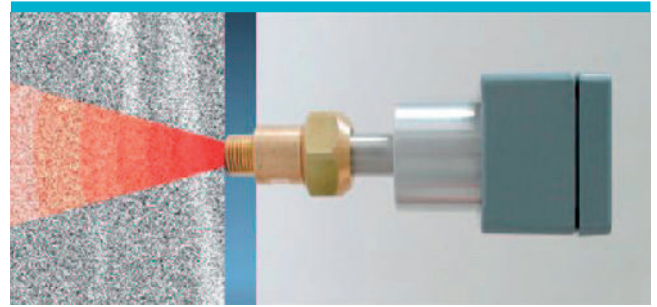
The particles passing in movement in this field generate a signal that varies in amplitude and in frequency.

Dynamic flow:

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

Flow no Flow:

The threshold can be defined between 0 and 100% of flow
A "switch" is activated when the sensor detects a superior or inferior fixed threshold.



Advantages



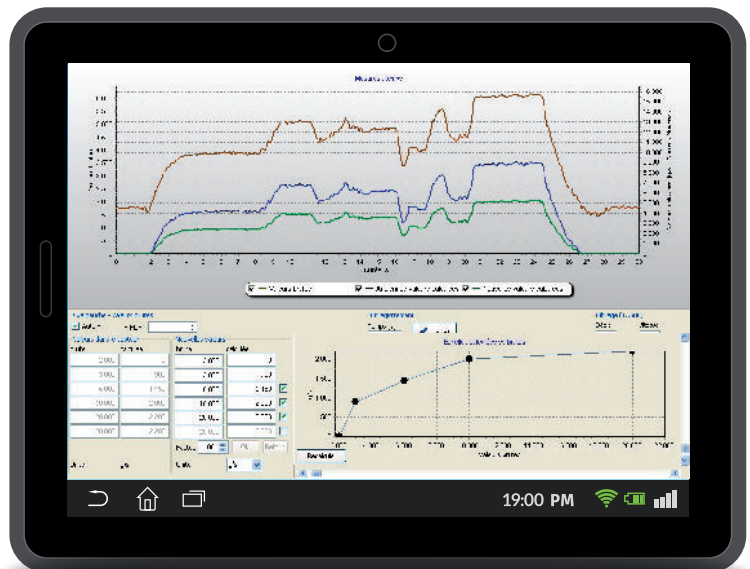
Beyond the working principle, the technology developed for SF METER allows the equipment to compensate for variations in:

- ✓ Concentration
- ✓ Speed of particles
- ✓ Granulometrics
- ✓ Temperature

**FOR BETTER PRECISION.
FOR BETTER REPEATABILITY.
FOR BETTER STABILITY OVER TIME.**

**Contactless measurement
Very easy-to-use device
No maintenance
No remote electronic handling**

FLOWCONTROL software



Once calibrated (using FlowControl), the device is autonomous.

Application Examples



Technical Information



Housing	Aluminium / Stainless steel (depending on models) Dim: L134 x W90 x H152 to 350mm Weight: 1.2 Kg
Protection index	IP 66, Standard Verison is Aluminum, SS option
Power supply	24VDC +/- 10%
Consumption	0.5A
Temperature (°C)	Ambient : -20°C to +60°C Products : -20°C to +70°C (in standard) Version with special wave guide up to 200°C
Protection index	IP66
Pressure	< 80 bars
Dynamic flow outputs	2 analog outputs type 0/4 - 20mA, charge 500 Ω 1 output impulse, on external supply relay maxi 300Vac or Vdc, and current limited to 100mA max Optional modbus
ATEX version	II 1/2 D
FlowNoFlow outputs	1 relay output max 30Vac ou Vdc - 80mA
Cables supplied	M12 - 8points - lg 5m USB - lg 1,8m
FLOWCONTROL software	included
Languages	French/English

Product Codes

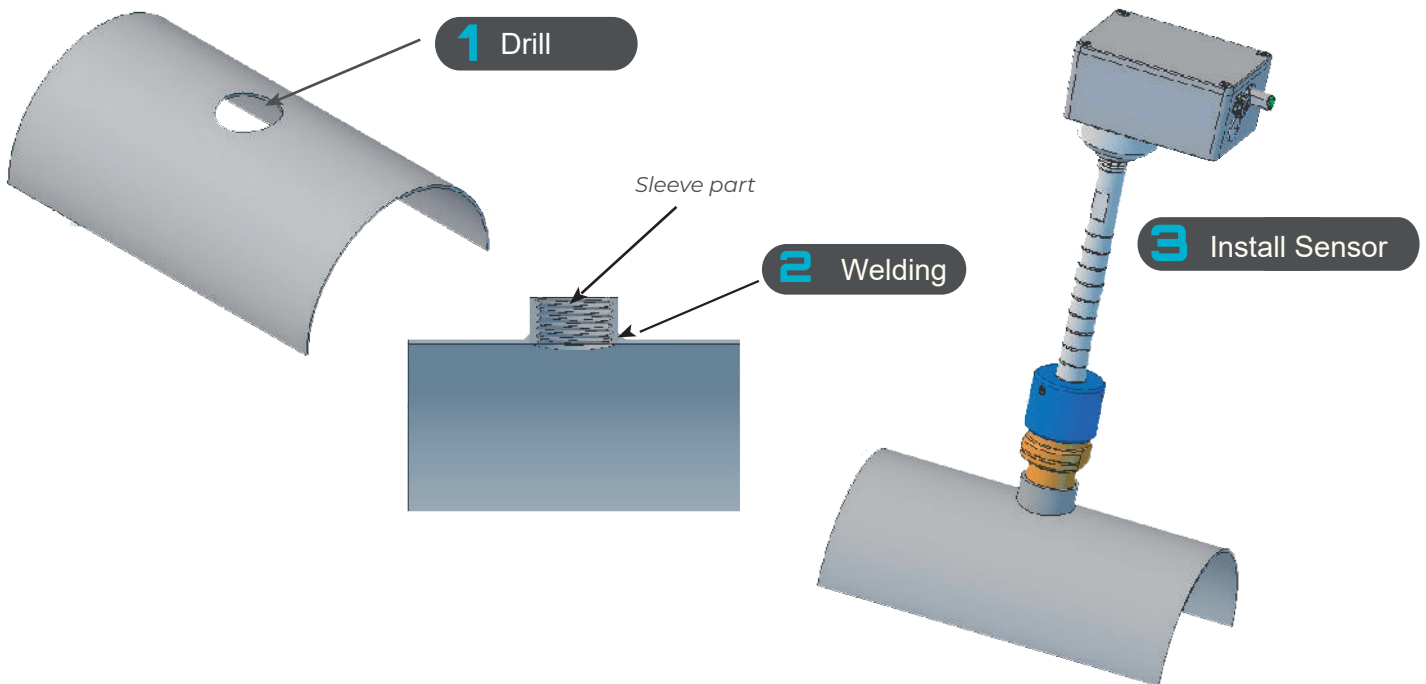


15-SF Meter-150	Standard with 150mm Wave Guide
15-SF Meter-300	Standard with 300mm Wave Guide
15-SF Meter-150-SS	Stainless Steel Housing, 150mm WG
15-SF Meter-300-SS	Stainless Steel Housing, 300mm WG
15-SF Meter-150-EX	ATEX Approval with 150mm Wave Guide
15-SF Meter-300-EX	ATEX Approval with 300mm Wave Guide
15-SF Meter-150-SS-EX	ATEX Approval, SS Housing, 150mm WG
15-SF Meter-300-SS-EX	ATEX Approval, SS Housing, 300mm WG

Accessories



Power Supply Box	PSI
Valve	
Socket	
ModBus	



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