

DYNAMIC FLOW

Solids flow detection device in line for **bulk industries.**



Solid products flow measurement

Specially developed for bulk industries

- All types of closed pipes
- Solids with variable granulometry
- Flow detection (from some kg to several t/h)

DYNAMIC FLOW

- In line measurement
- In continuous measurement
- Real-time measurement
- Contact free
- Robust and adapted to rugged environments
- Easy installation
- Easy to use
- Autonomous product



DYNAMIC FLOW is a new intelligent MICROWAVE sensor, dedicated to flow measurement, specially developed to detect solids flow in pneumatic pipes or free fall.

DYNAMIC FLOW allows bulk industries to detect their product flow, in real time, simply, with accuracy and reliability.

DYNAMIC FLOW optimizes manufacturing process guarantees their users to the continuity of the flow and material used in equipment control and stabilizes the amount of products.

DYNAMIC FLOW is based on 20 years of acquired experience on the in line industrial measurement market and on the MICROWAVE development for measurement devices and test by EDIT Company.

DYNAMIC FLOW therefore uses the last MICROWAVE technologies, to free itself at best from limits of utilisation, and insure the best accuracy, whatever the process variations and the products to detect.

DYNAMIC FLOW consists of optical, mechanical and electronic parts, specially designed to work in usual bulk industries process conditions.

DYNAMIC FLOW is the ideal measurement device to control in line and in continuous the solids flow.

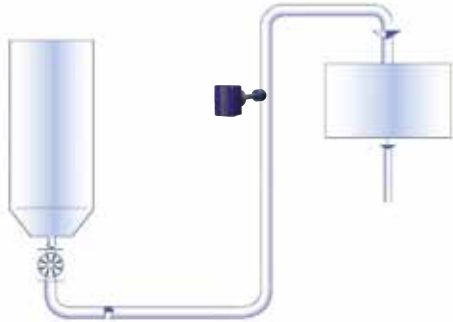
POWDER	WOOD CHIPS
PELLETS	PARTICLES
DUST	CHIPS

coal / lignite coke	sand
flour	talc
gypsum	lime

polystyrene	ash	perlite	washing powder	sawdust	lime
tobacco	soot	stone powder	malt	wood chips	cement

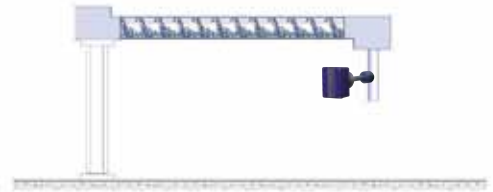
Solids flow measurement for bulk industries

Regulates the process



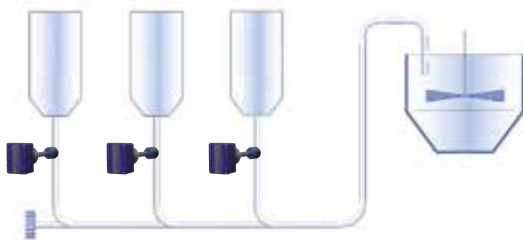
Measurement of solid pneumatic conveyor

Oversees the production



Measurement of solid freefall

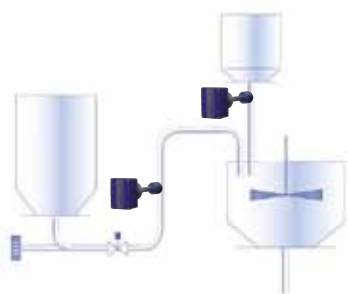
Improves the quality of the finished product



Measures solid - mixer

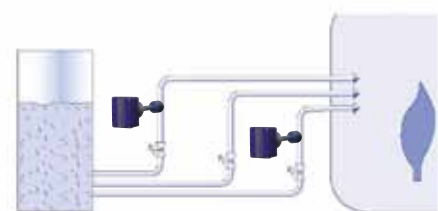
- Optimizes the material consumed
- Stabilizes the quantity produced
- Improves the performance
- Minimizes operations of servicing and maintenance
- Reduces downtime and stops in production

Monitors the quantities sent



Measures solids - feeders

Optimizes performance



Solid measurement - Control volume conveyed

Garbage incinerator



Rate charcoal

Cement plant



Speed cement

- Distributes homogeneously and with precision the material
- Ensures a constant quality production
- Regulates the process and archive the traceability

Aluminum



Coal flow

Steelworks



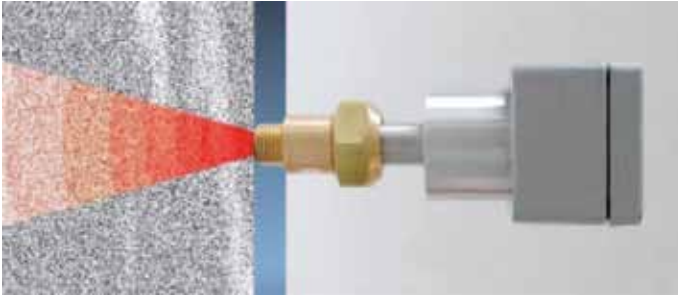
Coal flow

Wood Industries



Sawdust flow

Operating principle



Dynamic Flow is functioning with the latest microwave technologies. A microwave length is sent.

A microwave frequency is emitted into the pipe, perpendicularly to the flow of material to be measured. Each moving particle passing in the magnetic field creates a flash by reflecting a flash energy.

All flash are included.

A specific software calculates the flow.

Advantages DYNAMIC FLOW

The Dynamic Flow technical innovations permit to compensate changes in:

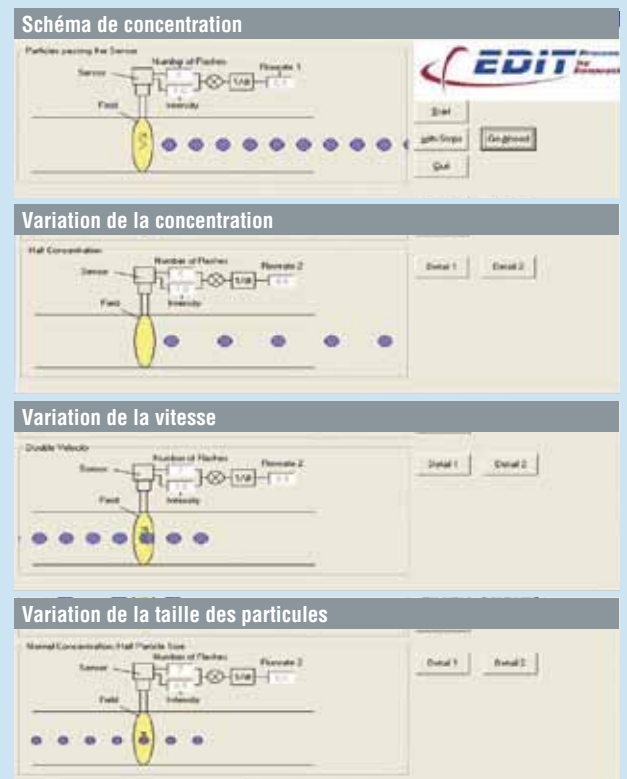
- Concentrations of material variations
- Running speed variations
- Particle size variations
- Temperature variations

For a better accuracy

For a better repeatability

For a better stability in time

Unlike other sensors for the measuring flow powder in the market, DYNAMIC FLOW takes into account "Doppler Effect" playing the role of «counter» particle and interpreting the signal in order that each flash is on the same "size".



DYNAMIC FLOW - System and software

Flow No Flow calibrates and pilots itself simply and with accuracy through its software. Developed under Windows, it also offers a complete range of exploitation modules, visualisation, of monitoring and archiving.

The intelligence directly integrated in the sensor, dynamic Flow is independent from electronic system for the treatment (Calibration and utilisation speaking). Calibrated, Dynamic Flow communicates directly by the output (4...10V) or tension (2...10V).

DYNAMIC FLOW

Measuring mass flow of powders and particles

- Pneumatic conveying
- Freefall
- From 1 mm to several mm
- From a few kilograms to several t / h
- For pipes to 300 mm
- Pressure \leq 300 bar

DYNAMIC FLOW - Configuration, installation and technical characteristics

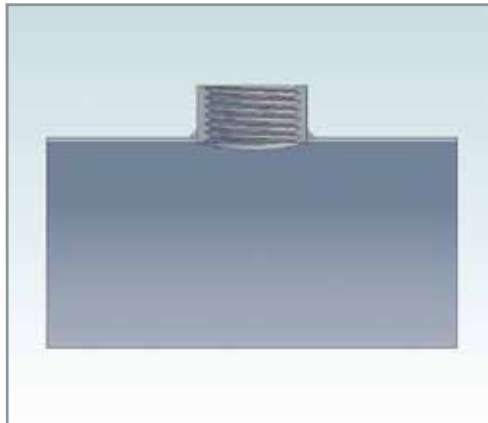
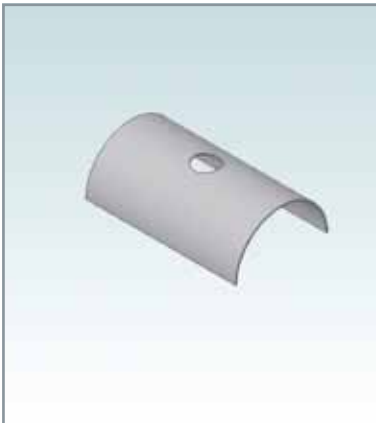
Very easy to install and configure.

One of the most flexible and functional moisture devices for bulk industries.

EX - version ATEX

- **Cabinet** : stainless steel / aluminium (according to models)
L134 mm / l 90 mm / H 152 mm / P 1 kg
- **Protection factor:** IP 66 (standard)
IP 67 (option)
- **Power supply** : 24 VDC +/- 4 VDC
- **Consumption** : 0.4 A Max
- **Pression** : 8 bars (standard) to 200 bars (option)
- **Temperature**
 - in stock:** -25°C to +75°C (without condensation)
 - ambient:** -20°C to +60°C
 - product to detect:** 110°C (standard)
Version with a special wave guide to 200°C
High temperatures – on request
- **Analog output** : 2 x 4-20 mA outputs
- **Relay output** : 1 puls relay output with external power supply 30 V AC max or DC and current limited to 0.1 A maximum
- **Modbus output** : (option)

Technical drawing mounting



EDIT is a FRENCH company, specialized for more than 20 years in design and manufacturing of measuring devices for industry.

EDIT supplies annually several hundreds of infrared and microwave devices to his industrial customers all around the world, so they can simply control their process with reliability.

EDIT invests every year in human and material resources to guarantee to his international customers the same quality concerning innovation product and reliability of result.

EDIT is an active member of numerous poles and technological clusters, and is recognized as an innovative actor on the market.

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