

FlowJam T

EUROTEC

Bulk Flow Detection for Thin Pipelines

PROCESS MONITORING SYSTEMS FOR SOLIDS

Product Information



FEATURES:

- triboelectric measurement
- free cross section
- Plug and Play
- trend monitoring for throughput
- suitable for pipelines with outer diameter: 4 ... 25 mm
- compact device
- easy retrofitting

TECHNOLOGY

USAGE

FlowJam T is a compact sensor, that has been specially developed for monitoring the flow of solids that are conveyed through thin pipe lines.

The sensor can be used for tubes made of electrically non-conductive material, such as plastic or rubber, with outside diameters between 4 and 25 mm.

The sensor is mounted around the tube for measurement.

FUNCTION

The FlowJam T detects all types of solid streams that move through the detection area. Detection is achieved, regardless of the direction of movement, by the triboelectric discharges of the particles.

The material movement in non-metalic pipelines is displayed as a trend at the analogue output and as a switching state at the relay.

Via the trend output, whether more or less material is conveyed through the tube, for example, can be displayed. The material flow can also be observed for uniform distribution.

In addition, the relay contact output provides additional Flow/NoFlow information.

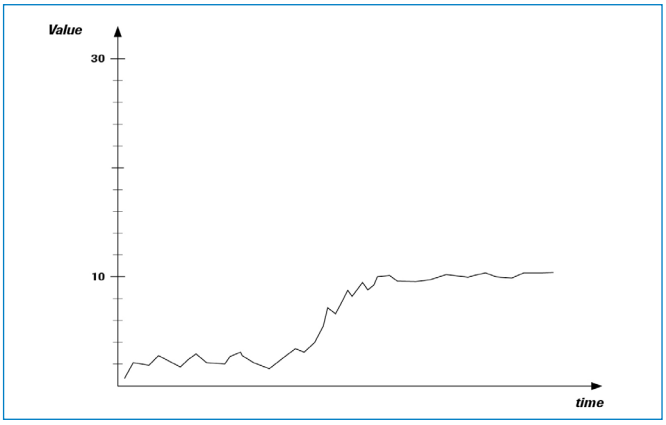


Fig. 1: Signal with rising material flow

SYSTEM

The FlowJam T is a compact device and is connected via an 8-pin plug.

For parameterisation of the sensor, a Modbus-USB converter and software could be provided.

TECHNICAL DATA

Power supply	24 V DC
Connection	M12-Plug
Housing material	Aluminium
Protection type	IP64
Process temperature	-20 ... +60 °C
Ambient temperature	-20 ... +60 °C
Analogue output	1 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Relay output	NO (make contact); max. 250 V AC / 0.5 A; 30 V DC / 1 A
Possible outer diameter	4 ... 25 mm
Dimensions	Width: 62 mm Depth: 62 mm Height: depend on outer diameter Ø (with Ø 8 mm the height is 75 mm)

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