

Microwave flow indicator Solimotion FTR16

Ultra-compact flow indicator for monitoring pneumatic and mechanical transport processes of bulk solids



More information and current pricing:

www.ch.endress.com/FTR16

Benefits:

- Non-contact measuring principle - detection almost independent of process properties
- High security - permanent self-diagnosis and full self-test
- First flow indicator for bulk solids with IP69 protection classification
- Meets the requirements of EU 1935/2004
- Very simple and cost-effective commissioning
- Safe detection - non-contact measuring method guarantees wear-free and maintenance-free continuous operation
- Robust design - housing made of stainless steel

Specs at a glance

- **Process temperature** Non-contact installation: any Within installation: $-20\text{ °C} \dots +60\text{ °C}$ ($-4\text{ °F} \dots +140\text{ °F}$) With HT-Adapter: up to $+450\text{ °C}$ ($+842\text{ °F}$)
- **Process pressure / max. overpressure limit** Non-contact installation: any Within installation: 0.5 bar ... 6.8 bar (7.2 psi ... 99 psi) abs. With HP-Adapter: up to +21 bar (+305 psi) abs.
- **Min. density of medium** Solid weight: $> 10\text{ g/l}$

Field of application: The Solimotion FTR16 is an ultra-compact flow indicator for efficient and reliable monitoring of pneumatic and mechanical transport processes of bulk solids. It can also be used in difficult-to-access or confined installation conditions. For non-metallic container materials, measurement from the outside is possible.

Features and specifications

Point Level / Solids**Measuring principle**

Microwave barrier

Characteristic / Application

Flow indicator for bulk solids

Non-contact motion detection (movement / no movement) of pneumatically or mechanically conveyed bulk solids of all kinds,

also in potentially explosive atmospheres (dust Ex)

Specialities

Detection range: max. 5 m

Detectable velocity: 0.09 m/s ... 62 m/s

Supply / Communication

18 V ... 30 V DC,

Plug M12

Ambient temperature

-20 °C ... +60 °C (-4 °F ... +140 °F)

Process temperature

Non-contact installation: any

Within installation:

-20 °C ... +60 °C (-4 °F ... +140 °F)

With HT-Adapter:

up to +450 °C (+842 °F)

Process pressure / max. overpressure limit

Non-contact installation: any

Within installation:

0.5 bar ... 6.8 bar (7.2 psi ... 99 psi) abs.

With HP-Adapter:

up to +21 bar (+305 psi) abs.

Min. density of medium

Solid weight: > 10 g/l

Point Level / Solids**Main wetted parts**

Non-contact installation:

no wetted parts

Contact installation:

316L, PTFE

Process connection

ISO228-1: G1", G1-1/2"

ASME: NPT1-1/2"

Process connection hygienic

Non-contact installation

Communication

3-wire-DC-PNP,

2 DC-PNP-outputs

Certificates / Approvals

ATEX, IEC Ex

Design approvals

EN10204-3.1

Hygienic approvals

EG1935/2004

Options

Mounting bracket

Counternut

Welding sleeve

Connection cable

Connecting cable

High-pressure adapter

High-temperature adapter

Extension for HT adapter

Mounting flange

Sight glass fitting

FAR50, FAR51, FAR52, FAR54

Point Level / Solids

Application limits

Solid weight: < 10 g/l

More information www.ch.endress.com/FTR16