

# Microwave flow indicator Solimotion FTR20

## For monitoring pneumatic and mechanical transport processes for bulk solids



### Benefits:

- Sensor, transmitter and power unit mounted in one housing, which means less effort for installation and mounting
- High safety level compliant with international explosion protection certificates
- Flush-mounted installation, non-contact installation possible for ideal integration into the process
- Electronics housing can be rotated by 360° allowing adjustment into optimum position after installation
- High cost-effectiveness thanks to its mechanical robustness: No wear, process-wetted ceramic sensor diaphragm (optional), long service life, maintenance-free
- Signaling of mass flow (present or not present)

More information and current pricing:

[www.ch.endress.com/FTR20](http://www.ch.endress.com/FTR20)

### Specs at a glance

- **Process temperature** Standard -40°C ... +70°C (-40°F ...158°F)  
With adapter for temperature reduction: -40°C to +450°C -40°F ... +842°F)
- **Process pressure / max. overpressure limit** 0.5 ... 6.8 bar abs standard (7.2 ... 98.6 psi abs) When using the adapter for temperature reduction: 0.8 to 5.1 bar abs (11.6 ...74 psi abs)

**Field of application:** The Solimotion FTR20 flow indicator for bulk solids is a non-contact device based on microwave technology. It is ideally suited for cost-effective monitoring of a mass flow (present or not present). The compact device can be used wherever the cost-effective monitoring of bulk solids movement is required. Individual adjustments to the application can be carried out by means of configurable functions (incl. automatic calibration).

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## Features and specifications

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### Point Level / Solids

**Measuring principle**

Microwave barrier

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**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)

Detection of changes in the mass flow of bulk solids  
via the optional 4 - 20 mA current output

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**Ambient temperature**

-40°C ... +70°C

(-40°F...158°F)

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**Process temperature**

Standard

-40°C ... +70°C

(-40°F ...158°F)

With adapter for temperature reduction:

-40°C to +450°C

(-40°F ...+842°F)

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**Process pressure / max. overpressure limit**

0.5 ... 6.8 bar abs standard

(7.2 ... 98.6 psi abs)

When using the adapter for temperature reduction:

0.8 to 5.1 bar abs

(11.6 ...74 psi abs)

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**Main wetted parts**

316Ti/1.4571

Sensor diaphragm: PTFE or ceramic

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Point Level / Solids

**Process connection**

Thread R 1½ (EN 10226)

NPT 1½ (ASME B1.20.1)

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**Communication**

Relay SPDT

Analog 4 - 20 mA

Solid-state relay

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**Certificates / Approvals**

ATEX, CSA C/US, IEC Ex

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**Design approvals**

EN10204-3.1

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**Options**

Adapter for temperature reduction

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