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)

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 absolute / 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).

Endress+Hauser



More information and current pricing: www.endress.com/FTR20

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)

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

Ambient temperature

-40°C ... +70°C (-40°F...158°F)

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 absolute / 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)

Main wetted parts

316Ti/1.4571 Sensor diaphragm: PTFE or ceramic

Point Level / Solids

Process connection Thread R 1¹/₂ (EN 10226) NPT 1¹/₂ (ASME B1.20.1)

Communication

Relay SPDT Analog 4 - 20 mA Solid-state relay

Certificates / Approvals ATEX, CSA C/US, IEC Ex

Design approvals EN10204-3.1

Options Adapter for temperature reduction

More information www.endress.com/FTR20

