

Датчики уровня FQR56, FQR57

Технические характеристики

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Microwave barrier transmitter

Soliwave FQR56

Transmitter for non-contact point level detection in bulk solids



Benefits:

- Highly reliable measurement due to flush-mounted installation and possible non-contact installation as well as indication of the signal strength on the receiver
- Mechanical robust solution ensures cost savings over the whole life cycle of the product: No wear and tear, process-wetted ceramic sensor diaphragm (optional), long serviceable life, maintenance free
- Electronics housing can be rotated by 360°, allowing adjustment into optimum position after installation
- Direct connection of the supply voltage (transmitter and receiver separately or together)
- Mechanically compatible to FQR50/FDR50 microwave barrier, existing process connections can continue to be used; likewise, accessories such as adapter flanges, installation brackets and sight glasses can continue to be used

Specs at a glance

- **Process temperature** Non-contact installation: any Within installation: -40°C...+70°C (-40°F...+158°F) With high temperature 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 high pressure adapter: up to +21 bar (+305 psi) abs.
- **Min. density of medium** Solid weight: > 10 g/l

Field of application: The Soliwave FQR56 microwave barrier uses a contact-free procedure for detection of point levels. It can be installed in containers, conduits, shafts or on free fall shafts. It is possible to take a

measurement through non-metallic container materials from the outside. Suitable as point level switch for controlling and counting all types of bulk solids. It interacts with the Soliwave FDR56 receiver.

Features and specifications

Point Level / Solids

Measuring principle

Microwave barrier

Characteristic / Application

Transmitter

Non-contact point level detection and flow monitoring

Detecting, counting and positioning of objects

Monitoring of material transfer points

Detection and analysis of deposits and contamination

Installation:

Non-contact installation (transmission window) or front-flush installation (contact)

Specialities

Measurement range: max. 100 m

Supply / Communication

85 ... 253VAC

20 ... 30 VDC/ 20 ... 60 VAC

Ambient temperature

-40°C...+70°C

(-40°F...+158°F)

Process temperature

Non-contact installation: any

Within installation:

-40°C...+70°C (-40°F...+158°F)

With high temperature adapter:

up to +450°C (+842°F)

Point Level / Solids**Process pressure / max. overpressure limit**

Non-contact installation: any
Within installation:
0.5 bar...6.8 bar (7.2 psi...99 psi) abs.
With high pressure adapter:
up to +21 bar (+305 psi) abs.

Min. density of medium

Solid weight: > 10 g/l

Main wetted parts

Non-contact installation:
no wetted parts
Within installation:
316Ti or Aluminium;
PTFE or Ceramic

Process connection

1-1/2" R, 1-1/2" G, 1-1/2" NPT

Process connection hygienic

Non-contact installation

Certificates / Approvals

ATEX, IEC Ex, CSA C/US

Design approvals

EN10204-3.1

Options

Sight glass
High temperature adapter
High pressure adapter
Installation bracket
FAR50, FAR51, FAR52, FAR53, FAR54, FAR55

Components

Transceiver: FDR56

Point Level / Solids

Application limits
Solid weight: < 10 g/l

Microwave barrier transmitter Soliwave FQR57

Transmitter for non-contact point level detection and bulk flow monitoring



Benefits:

- Simple assembly with R 1½, 1½ NPT thread or G 1½ (with lock nut)
- Mechanically robust construction ensures cost savings over the whole life cycle of the product: No wear and tear, process-wetted ceramic sensor diaphragm (optional), long serviceable life, maintenance free
- Increased safety of the point level monitoring by optional integrated bulk flow monitoring
- Measuring principle almost independent of the process properties
- Can also be used in difficult applications, where other measurement methods fail
- Easy operation via the Nivotester FTR525 with graphical display saves time and reduces costs

Specs at a glance

- **Process temperature** Non-contact installation: any Within installation: -40°C...+70°C (-40°F...+158°F) With high temperature 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 high pressure adapter: up to +21 bar (+305 psi) abs.
- **Min. density of medium** Solid weight: > 10 g/l

Field of application: The Soliwave microwave barrier uses a non-contact procedure for detection of point levels and bulk flow (flow / no flow, trend). The device is also suitable for detecting and counting objects, detection of deposits as well as monitoring of filling processes and material transfer points. It can be installed in containers, conduits, hoppers, filling stations, shafts, filters or on free fall shafts. It is possible

to take a measurement through non-metallic container materials from the outside.

Features and specifications

Point Level / Solids

Measuring principle

Microwave barrier

Characteristic / Application

Transmitter

Non-contact point level detection and flow monitoring

Detecting, counting and positioning of objects

Monitoring of material transfer points

Detection and analysis of deposits and contamination

Non-contact installation:

Waves emitted from outside

Within installation:

Waves emitted within installation (contact)

Specialities

With optional integrated bulk flow monitoring

Parallel mode with up to 5 channels

Detection range limit: max. 100 m

Detection range flow: max. 10 m, depending on bulk solids

Supply / Communication

Via process transmitter with control unit Nivotester

FTR525

Ambient temperature

-40°C...+70°C

(-40°F...+158°F)

Point Level / Solids**Process temperature**

Non-contact installation: any

Within installation:

-40°C...+70°C

(-40°F...+158°F)

With high temperature 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 high pressure adapter:

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

Min. density of medium

Solid weight: > 10 g/l

Main wetted parts

Non-contact installation:

No wetted parts

Within installation:

316Ti, PTFE or Ceramic

Process connection

Threads:

1-1/2" R, 1-1/2" G, 1-1/2" NPT

Communication

Via process transmitter with control unit Nivotester

FTR525

Certificates / Approvals

ATEX, IEC Ex

Design approvals

EN10204-3.1

Point Level / Solids

Options

Sight glass

High temperature adapter

High pressure adapter

Installation bracket

FAR50, FAR51, FAR52, FAR53, FAR54, FAR55

Components

Transceiver: FDR57

Process transmitter: FTR525

Application limits

Solid weight: < 10 g/l

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