

# Microwave barrier emitter

## Soliwave FQR56

### Emitter for non-contact point level detection in bulk solids



Thông tin thêm và mức tính giá hiện tại:

[www.apsc.endress.com/FQR56](http://www.apsc.endress.com/FQR56)

#### Lợi ích:

- 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 (emitter 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

#### Tổng quan về thông số kỹ thuật

- **Process temperature** Non-contact installation: any Within installation: -40 °C...+70 °C (-40 °F...+158 °F) With HT-Adapter: up to +450 °C (+842 °F)
- **Process pressure absolute / max. overpressure limit** Non-contact installation: any Within installation: 0.5 bar...6.8 bar (7.2 psi...99 psi) abs. With HD-Adapter: up to +21 bar (+305 psi) abs.
- **Min. density of medium** Solid weight: > 10 g/l

**Phạm vi ứng dụng:** 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.

## Tín năng và thông số kỹ thuật

### 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 HT-Adapter:

up to +450 °C (+842 °F)

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

Non-contact installation: any

Within installation:

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

With HD-Adapter:

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

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**Min. density of medium**

Solid weight: &gt; 10 g/l

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**Main wetted parts**

Non-contact installation:

no wetted parts

Within installation:

316Ti or Aluminium;

PTFE or Ceramic

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**Process connection**

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

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**Process connection hygienic**

Non-contact installation

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**Certificates / Approvals**

ATEX, IEC Ex, CSA C/US

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**Design approvals**

EN10204-3.1

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**Options**

Sight glass

High temperature adapter

High pressure adapter

Installation bracket

FAR50, FAR51, FAR52, FAR53, FAR54, FAR55

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**Components**

Transceiver: FDR56

Point Level / Solids

**Application limits**

Solid weight: < 10 g/l

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