

## Soliwave FQR50



More information and current pricing:

[www.au.endress.com/FQR50](http://www.au.endress.com/FQR50)

### Benefits:

- Very reliable measurement thanks to adjustable sensitivity and 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, long serviceable life, maintenance free
- Safe solution unaffected by process conditions and even suited for hazardous areas

### Specs at a glance

- **Process temperature** Waves emitted from outside (non-contact): any Waves emitted within installation (contact): -20 °C ... 70 °C (-4°F ... 158 °F)
- **Process pressure absolute / max. overpressure limit** Waves emitted from outside (contactless): any Waves emitted within installation (contact): 0.8 bar abs ... 4.8 bar abs (12 psi ... 70 psi)
- **Min. density of medium** Solid weight: > 10 g/l

**Field of application:** The Soliwave FQR50 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 FDR50 receiver.

### Features and specifications

Point Level / Solids

**Measuring principle**

Microwave barrier

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**Point Level / Solids****Characteristic / Application**

Contactless measurement  
Microwave transmitter

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**Supply / Communication**

Transmitter

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**Ambient temperature**

-20 °C ... 70 °C  
(-4°F ... 158°F)

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**Process temperature**

Waves emitted from outside (non-contact): any  
Waves emitted within installation (contact):  
-20 °C ... 70 °C  
(-4°F ... 158 °F)

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**Process pressure absolute / max. overpressure limit**

Waves emitted from outside (contactless): any  
Waves emitted within installation (contact):  
0.8 bar abs ... 4.8 bar abs (12 psi ... 70 psi)

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**Min. density of medium**

Solid weight: > 10 g/l

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**Main wetted parts**

Within installation: Aluminium, PTFE  
Or: non-contact

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**Process connection**

1-1/2" G + NPT  
or with waves emitted from outside / mounting from outside, walls of  
container must not be made of metal

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**Process connection hygienic**

With waves emitted from outside

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**Communication**

Transmitter: Relays, DPDT

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## Point Level / Solids

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### Certificates / Approvals

ATEX, IEC Ex

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### Options

Flange

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### Components

Receiver: FDR50

Transmitter: FTR325

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### Successor

Soliwave FQR57

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### Application limits

When waves are emitted from outside (non-contact)

Solid weight: <10g/l

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