

## Soliwave FDR50



More information and current pricing:

[www.de.endress.com/FDR50](http://www.de.endress.com/FDR50)

### Benefits:

- Highly reliable measurement due 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 / 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 FDR50 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 FQR50 emitter.

## Features and specifications

### Point Level / Solids

#### Measuring principle

#### Characteristic / Application

Microwave receiver

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**Point Level / Solids****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 / 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  
With wave emission from outside / mounting from outside, metal  
container must not be made of metal

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**Process connection hygienic**

With waves emitted from outside (non-contact)

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**Communication**

Transmitter: Relays, DPDT

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**Certificates / Approvals**

ATEX, IEC Ex

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**Options**

Flange

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## Point Level / Solids

### Components

Emitter: FQR50

Transmitter: FTR325

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### Successor

Soliwave FDR57

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### Application limits

With waves emitted from outside (non-contact)

Solid weight: <10g/l

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