

# Guided radar measurement Time-of-Flight Levelflex FMP56

Economically efficient basis model for all level applications in bulk solids



## Benefits:

- Reliable measurement even for changing product and process conditions
- HistoROM data management concept for fast and easy commissioning, maintenance and diagnostics
- Highest reliability due to new Multi-Echo Tracking evaluation
- Hardware and software developed according to IEC 61508 up to SIL3
- Heartbeat Technology for a cost-effective and safe plant operation during the entire life cycle
- Seamless integration into control or asset management systems and intuitive, menu-guided operation concept (on-site or via the control system)
- World's easiest proof test for SIL and WHG saves time and costs

More information and current pricing:

[www.endress.com/FMP56](http://www.endress.com/FMP56)

## Specs at a glance

- **Accuracy** Rope probe: +/- 2 mm (0.08 in)
- **Process temperature** -40...+120 °C (-40...+248 °F)
- **Process pressure absolute / max. overpressure limit**  
Vacuum...16 bar (Vacuum...232 psi)
- **Max. measurement distance** Rope: 12 m (40 ft) Min DK >1.4
- **Main wetted parts** Rope probe: 304, 316, 316Ti, 316L, PEEK, PPS, PA

**Field of application:** Levelflex FMP56 is particularly designed for light-duty process conditions as they occur in silos and storage tanks for solids. FMP56 guided radar offers maximum reliability even in case of dusty atmosphere in narrow silos or in vessels with obstacles. Levelflex FMP56 is used for continuous level measurement in powdery to granular bulk

solids. Dust, filling noises, temperature layers and gas layers do not affect the measurement.

## Features and specifications

### Continuous / Solids

#### Measuring principle

Guided radar

#### Characteristic / Application

Basic device for pulling forces up to 12 kN

Rope probe

Integrated data memory, Factory precalibrated, Reliable measuring: in dusty atmosphere, in high + narrow silos, in vessels + obstacles.

#### Specialities

Heartbeat Technology,

Bluetooth® commissioning,

Operation and maintenance SmartBlue App,

HistoROM,

RFID TAG for easy identification

#### Supply / Communication

2-wire (HART / PROFIBUS PA/ FOUNDATION Fieldbus),

4-wire (HART),

Bluetooth® wireless technology and App (optional)

#### Accuracy

Rope probe: +/- 2 mm (0.08 in)

#### Ambient temperature

-40...+80 °C

(-40...+176 °F)

#### Process temperature

-40...+120 °C

(-40...+248 °F)

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

Vacuum...16 bar  
(Vacuum...232 psi)

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**Main wetted parts**

Rope probe:  
304, 316, 316Ti, 316L, PEEK, PPS, PA

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**Process connection**

Thread:  
G 3/4, MNPT 3/4

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**Sensor length**

Rope probe: 12 m (40 ft)

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**Max. measurement distance**

Rope: 12 m (40 ft)  
Min DK >1.4

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**Communication**

4...20 mA HART  
PROFIBUS PA  
FOUNDATION Fieldbus  
Bluetooth® wireless technology

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**Certificates / Approvals**

ATEX, FM, CSA C/US, IEC Ex, JPN Ex, INMETRO, NEPSI, KC, EAC, UK Ex

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**Safety approvals**

SIL

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**Options**

Sensor remote with 3 m/ 9 ft cable,  
Remote operation via SmartBlue App using Bluetooth®

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