

# Guided radar measurement Time-of-Flight Levelflex FMP50

For all basic level applications in liquids



## 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/FMP50](http://www.endress.com/FMP50)

## Specs at a glance

- **Accuracy** Rod probe: +/- 2 mm (0.08 in) Rope probe: +/- 2 mm (0.08 in)
- **Process temperature** -20...+80 °C (-4...+176 °F)
- **Process pressure / max. overpressure limit** Vacuum...6 bar, (Vacuum...87 psi)
- **Max. measurement distance** Rod: 4 m (13 ft) Min DK>1.6 Rope: 12 m (40 ft) Min DK>1.6
- **Main wetted parts** Rod probe: 316L, PPS, Viton Rope probe: 316, PPS, Viton

**Field of application:** Levelflex FMP50 is the instrument for basic applications in liquids which do not place high demands on temperature and pressure ranges or chemical resistance. Particularly in basic supply or storage applications as well as utility processes FMP50 is the best choice.

Levelflex FMP50 guided radar is used for continuous level measurement of liquids, pastes and slurries. The measurement is not affected by changing media, temperature changes, gas blankets or vapors.

## Features and specifications

### Continuous / Liquids

#### Measuring principle

Guided radar

#### Characteristic / Application

Basic device

Rod probe, Rope probe

Integrated data memory, Factory precalibrated, Reliable measuring for changing medias.

#### 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

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

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

#### Ambient temperature

-20...+80 °C

(-4...+176 °F)

#### Process temperature

-20...+80 °C

(-4...+176 °F)

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**Continuous / Liquids****Process pressure / max. overpressure limit**

Vacuum...6 bar,  
(Vacuum...87 psi)

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**Main wetted parts**

Rod probe: 316L, PPS, Viton  
Rope probe: 316, PPS, Viton

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**Process connection**

Thread:  
G 3/4, MNPT 3/4  
Flange:  
UNI Flange

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**Sensor length**

Rod probe: 4 m (13 ft)  
Rope probe: 12 m (40 ft)

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**Max. measurement distance**

Rod: 4 m (13 ft) Min DK>1.6  
Rope: 12 m (40 ft) Min DK>1.6

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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, INMETRO, NEPSI, KC, EAC, UK Ex

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**Safety approvals**

Overfill protection WHG  
SIL

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**Design approvals**

EN 10204-3.1

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## Continuous / Liquids

### Options

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

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### Application limits

Application limits

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More information [www.endress.com/FMP50](http://www.endress.com/FMP50)