

# Radar measurement Time-of-Flight Micropilot FMR10

Level measurement in liquids for water & wastewater and utilities in all industries



## Benefits:

- Non-contact radar with Bluetooth® commissioning, operation and maintenance app
- Most compact radar due to unique radar chip design offering perfect fit in limited space applications
- Best price-performance-ratio radar
- Perfect application fit for water & wastewater and utilities in all industries (IP66, IP68 / NEMA4x /6P)
- Full PVDF body to resist outdoor conditions, sealed wiring and fully potted electronics eliminates water ingress and allows operation under harsh environmental conditions
- Easy setup with three main parameters suits for most applications
- Simple, safe and secure wireless remote access via Bluetooth®

from **€386.00**

Price as of 28.11.2021

More information and current pricing:

[www.casc.endress.com/FMR10](http://www.casc.endress.com/FMR10)

## Specs at a glance

- **Accuracy** +/- 5 mm (0,2")
- **Process temperature** -40...+60°C (-40...+140°F)
- **Process pressure absolute / max. overpressure limit** -1...3 bar (-14,50...43 psi)
- **Max. measurement distance** Standard: 8 m (26.2 ft) With flooding protection tube: 12 m (39.4 ft)
- **Main wetted parts** PVDF, PBT

**Field of application:** Micropilot FMR10 offers continuous non-contact level measurement and is a perfect application fit for the water & wastewater industry and utilities across all industries. FMR10 belongs to the first radars with Bluetooth® commissioning, operation and maintenance app. Signal curves can be shown via app on every

Bluetooth®-enabled smartphone or tablet (iOS, Android). With the compact design, thanks to unique chip, the device is ideal for limited space applications.

## Features and specifications

### Continuous / Liquids

#### Measuring principle

Level radar

#### Characteristic / Application

Simple applications in Water & Wastewater  
Utility applications in all industries  
Easy storage tanks

#### Specialities

Bluetooth® commissioning,  
Operation and maintenance via SmartBlue  
App

#### Supply / Communication

2-wire (4...20 mA)  
Bluetooth® wireless technology and App

#### Frequency

K-band (~26 GHz)

#### Accuracy

+/- 5 mm (0,2")

#### Process temperature

-40...+60°C  
(-40...+140°F)

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

-1...3 bar (-14,50...43 psi)

#### Main wetted parts

PVDF, PBT

## Continuous / Liquids

### Process connection

Thread:

G1", NPT1"; G1 1/2", NPT1 1/2"

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### Max. measurement distance

Standard: 8 m (26.2 ft)

With flooding protection tube: 12 m (39.4 ft)

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### Communication

Bluetooth® wireless technology

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### Certificates / Approvals

CSA C/US

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### Options

Flooding protection tube

Different mounting possibilities

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### Application limits

DK < 4:

FMR5x;

Turbulent surfaces:

FMR5x;

Ammoniacal gas phase:

FMR54 in stilling well;

Strong build-up formation:

FMR54 with air purge;

Only PTFE resistant:

FMR52;

Custody transfer measurement:

FMR5xx or NMR8x

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More information [www.casc.endress.com/FMR10](http://www.casc.endress.com/FMR10)