# The simpler, the better.

The measuring devices for anyone who wants more of worrying less.

Micropilot FMR10B, FMR20B, FMR30B

Added values

Benefits at a glance

**Industry focus** 

Product overview



# At a glance: Micropilot FMR10B, FMR20B, FMR30B

The simpler, the better.

Radar sensors Micropilot FMR10B, FMR20B and FMR30B with 80 GHz technology score with maximum simplicity and the highest reliability.

They are made for continuous non-contact radar level measurement and are the perfect match for applications in the Water & Wastewater industry. They are also intended for use in basic applications in the Mining, Minerals & Metals industry and utilities across all industries.



# **Added Values**

Micropilot FMR10B, FMR20B and FMR30B offer a simple and reliable solution in a wide range of applications.

The devices feature best-in-class simplicity thanks to guided setup sequences called wizards, status LED and display.

They offer the highest efficiency through Heartbeat Technology.

Simplicity

Efficiency

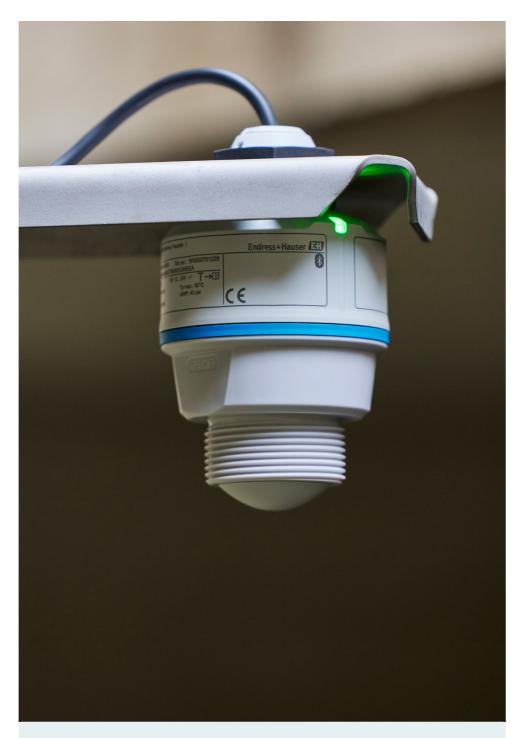


The simpler, the better.

Simplify your installation process with a compact design. Simplify commissioning, operation and supervision thanks to remote and on-device access.

Simplicity

Efficiency



Easy operation  $\vee$ 



Fast commissioning  $\vee$ 



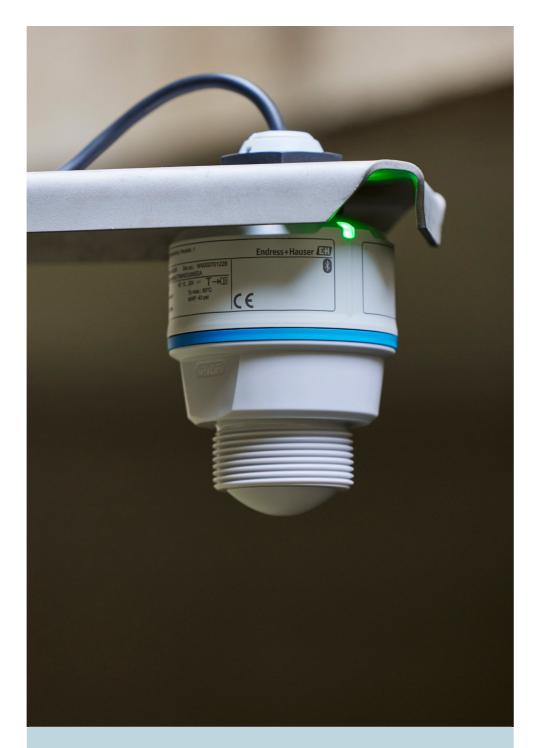
Straightforward device selection  $\vee$ 

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Easy operation  $\vee$ 

Device identification during Bluetooth connection thanks to "It's me-function" (LED flashing) and status indication via LED.

Easy procedure guaranteed by wizards also guiding through proof tests and verifications of the devices.



Fast commissioning ∨



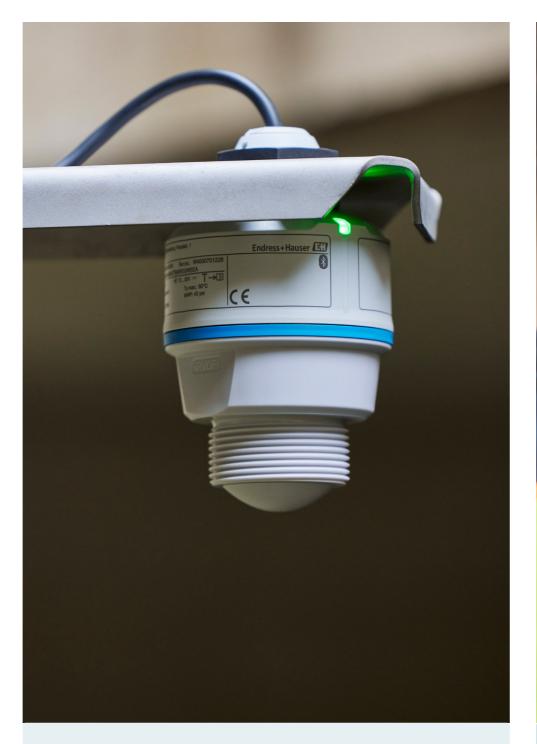
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Efficiency



Easy operation  $\vee$ 



Fast commissioning  $\vee$ 

Fast and easy commissioning thanks to step-by-step guided setup sequences (wizards) in less than three minutes.

Bluetooth connectivity enables easy, reliable and encrypted wireless remote access via smartphone or tablet.



Straightforward device selection  $\vee$ 

The simpler, the better.

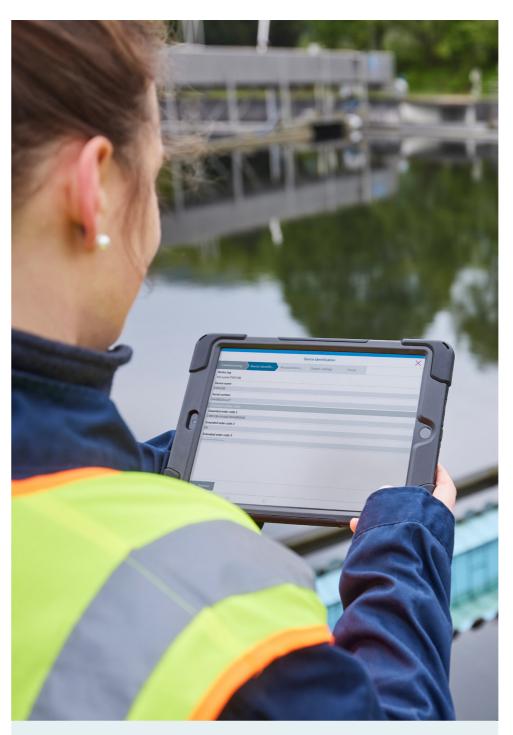
Simplify your installation process with a compact design. Simplify commissioning, operation and supervision thanks to remote and on-device access.

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Efficiency



Easy operation  $\vee$ 



Fast commissioning  $\vee$ 



Straightforward device selection  $\vee$ 

One device fits all requirements for both liquid and solid applications. General suitability reduces storage costs for spare devices.

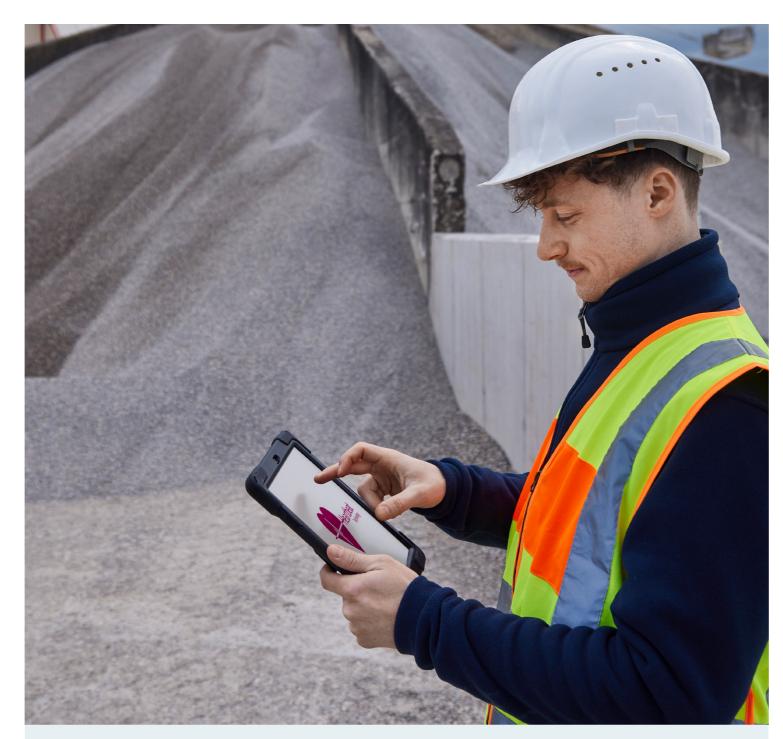
# Reliable in use

Worry less with these devices.

Increase process efficiency with traceable measuring reliability. Increase productivity by ensuring process safety.

Simplicity

Efficiency



Reliability and reduced downtime  $\checkmark$ 



Reduced installation effort  $\,$ 

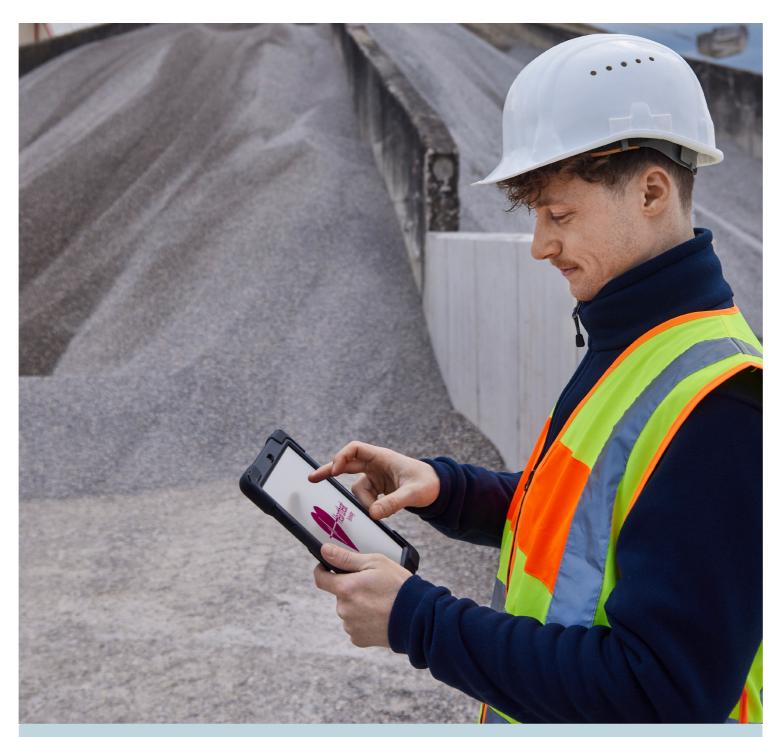
### Reliable in use

Worry less with these devices.

Increase process efficiency with traceable measuring reliability. Increase productivity by ensuring process safety.

Simplicity

Efficiency



Reliability and reduced downtime  $\checkmark$ 

Heartbeat Technology allows documented, traceable and on-demand verification guided through wizard without process interruption. A device verification is performed in less than three minutes, without having to remove the device.



Reduced installation effort  $\vee$ 

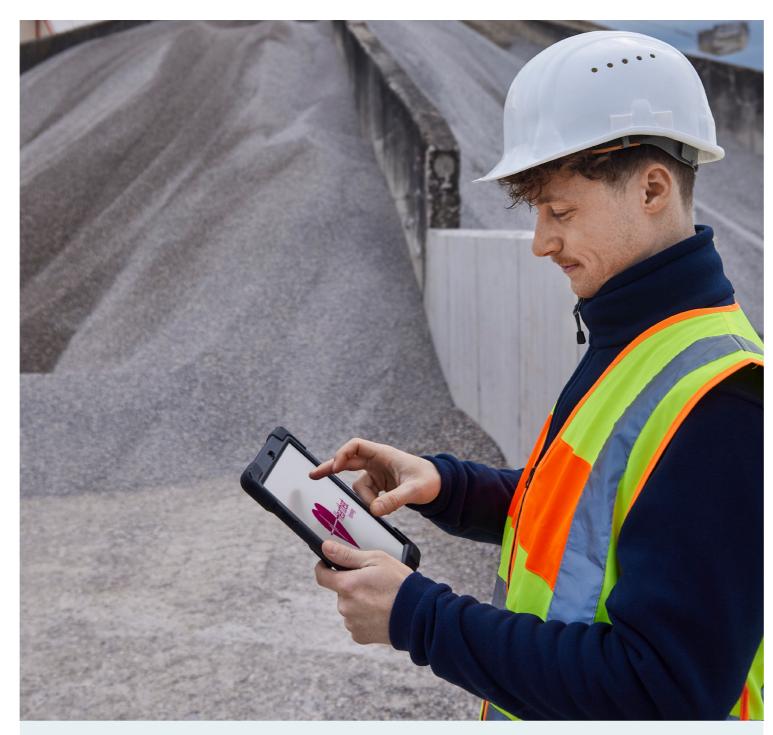
### Reliable in use

Worry less with these devices.

Increase process efficiency with traceable measuring reliability. Increase productivity by ensuring process safety.

Simplicity

Efficiency



Reliability and reduced downtime  $\checkmark$ 



Reduced installation effort  $\vee$ 

Customized installation thanks to application specific accessories. 1:1 replacement makes integration of the devices easy.

# Benefits at a glance

Benefit from the perfect match for your individual requirements. Find out which features make the Micropilot FMR10B, FMR20B and FMR30B easy to use and efficient.

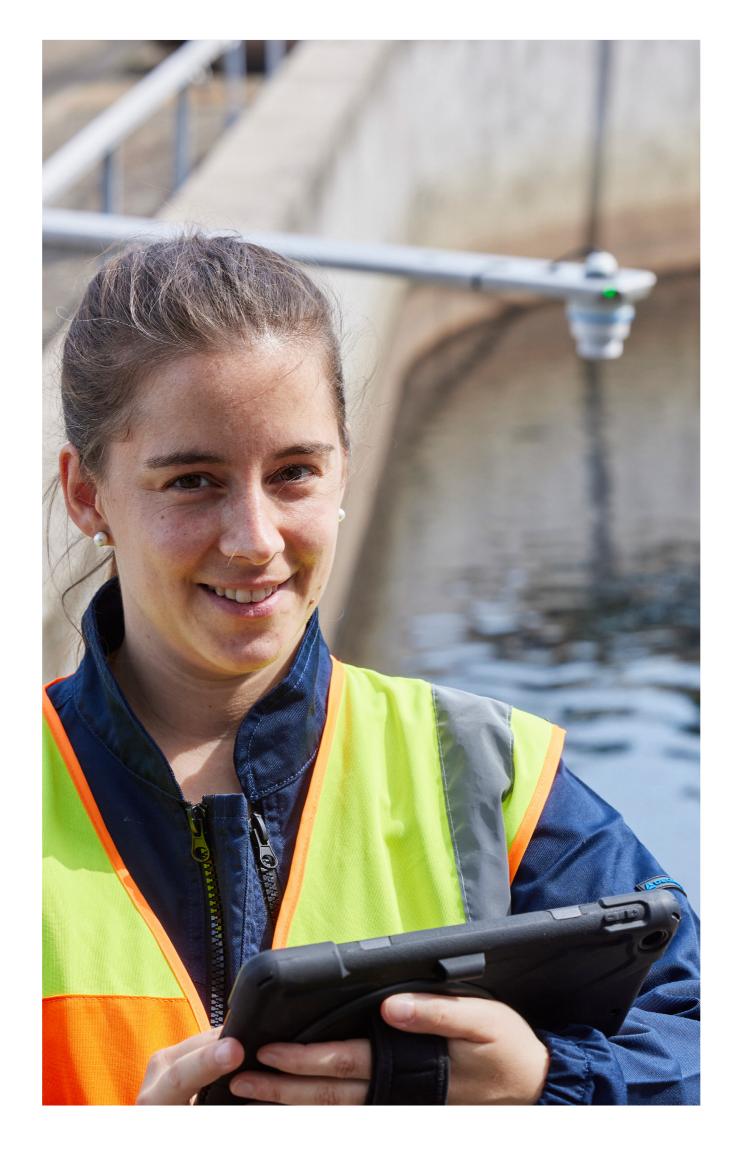


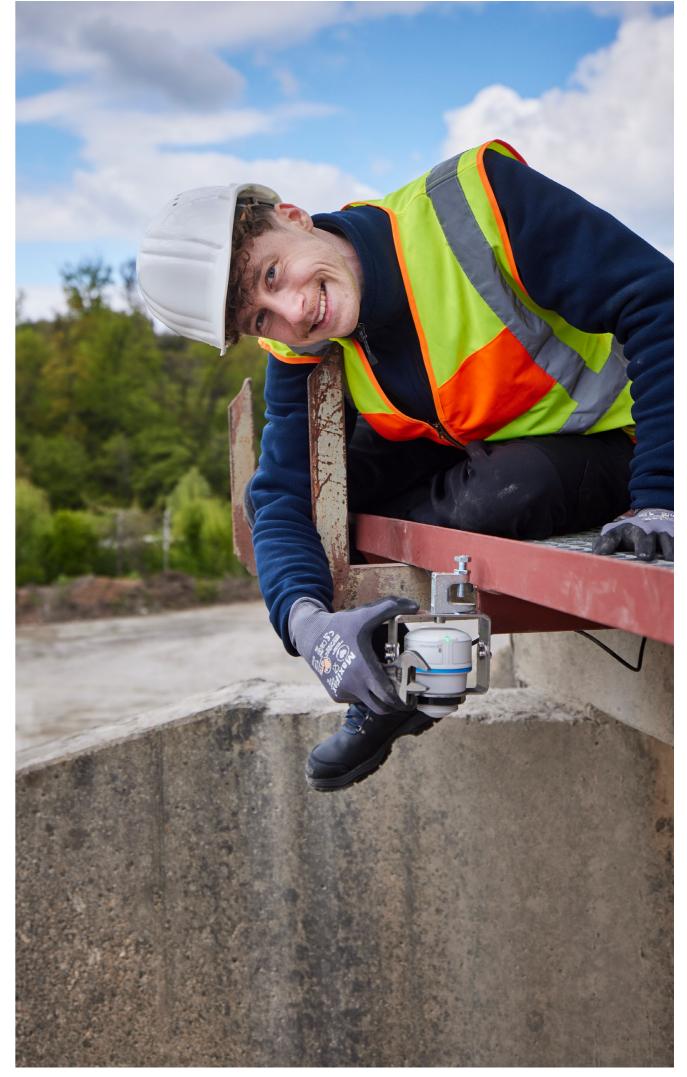
# **Industry Focus**

Thanks to their compact design, the Micropilot FMR10B, FMR20B and FMR30B are the perfect match for applications in the Water & Wastewater industry and for basic applications in the Mining, Minerals & Metals industry. Simple operation and suitability for liquids and solids make the devices a highlight for users in those applications.

Water & Wastewater

Metals, Mineral & Mining





Universal solution for basic applications

The Micropilot FMR10B, FMR20B and FMR30B set your application in the right balance between compliance and efficiency by reducing complexitiy.

**Industry Overview** 

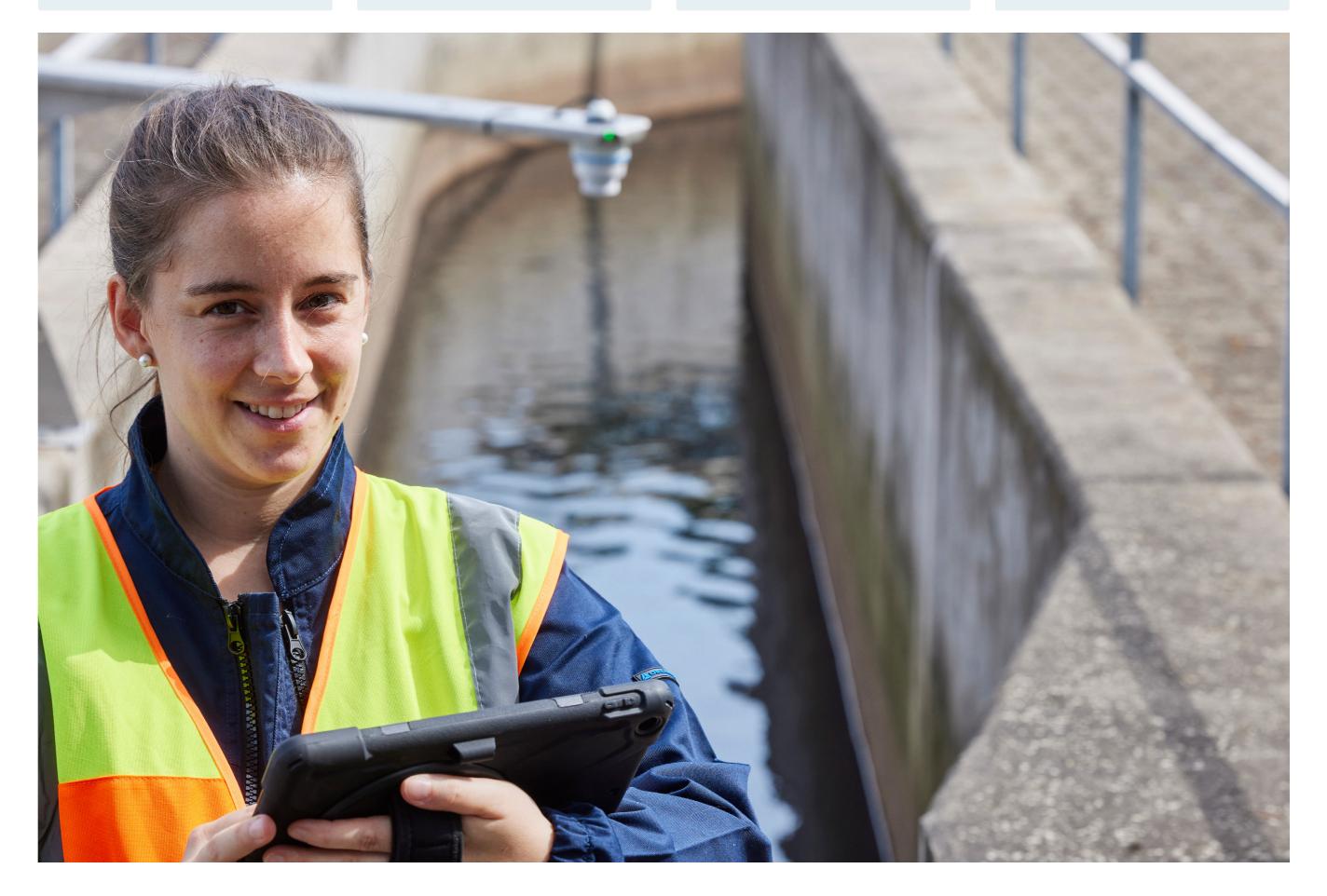
Mining, Minerals & Metals

Sewer management

Open channel flow

Pump station / lift station

IBC and storage tanks



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**Industry Overview** 

Mining, Minerals & Metals

Sewer management

Open channel flow

Pump station / lift station

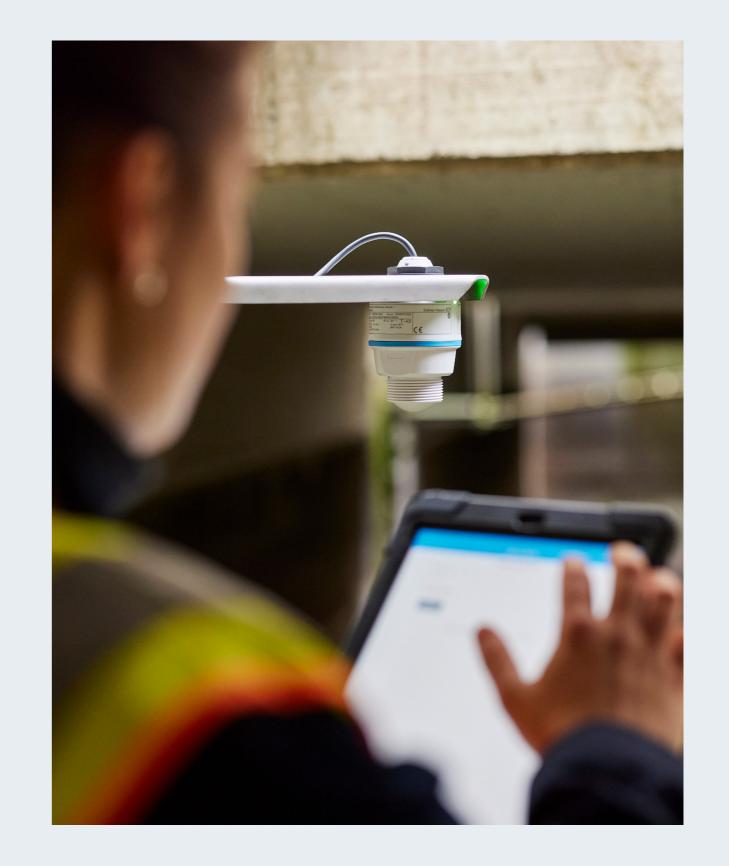
IBC and storage tanks

#### Your challenges

- Ex zone
- Narrow installation conditions
- Strong variety of media types
- Foam formation
- Condensate
- Flooding

#### **Our solution**

The Micropilot FMR20B is available in ATEX version. By enabling commissioning via Bluetooth, it is the perfect solution for limited-space applications. The option of a lateral cable outlet makes it even more suitable. Mounting brackets for the ceiling and flood protection tube ensure a reliable measurement, even under challenging conditions.



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**Industry Overview** 

Mining, Minerals & Metals

Sewer management

Open channel flow

Pump station / lift station

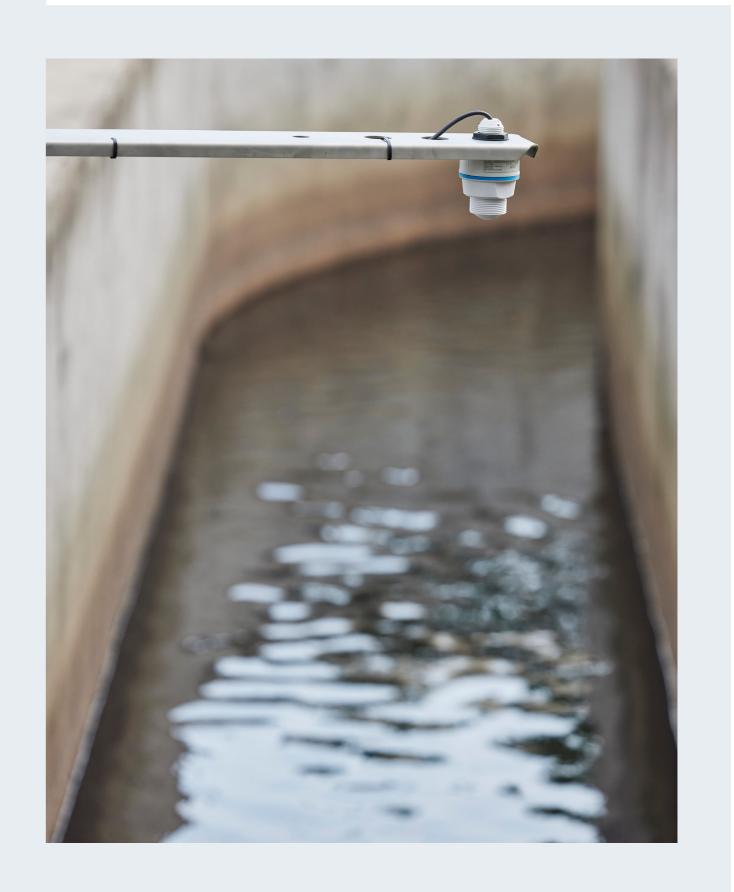
IBC and storage tanks

#### Your challenges

- Changing weather conditions (sun, wind, rain, snow, condensation)
- Flooding

#### Our solution

The Micropilot FMR10B, FMR20B and FMR30B enable independence from environmental influences with an integrated flow calculation and the option of a flood protection tube and weather protection cover.



Universal solution for basic applications

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**Industry Overview** 

Mining, Minerals & Metals

#### Sewer management

#### Open channel flow

#### Pump station / lift station

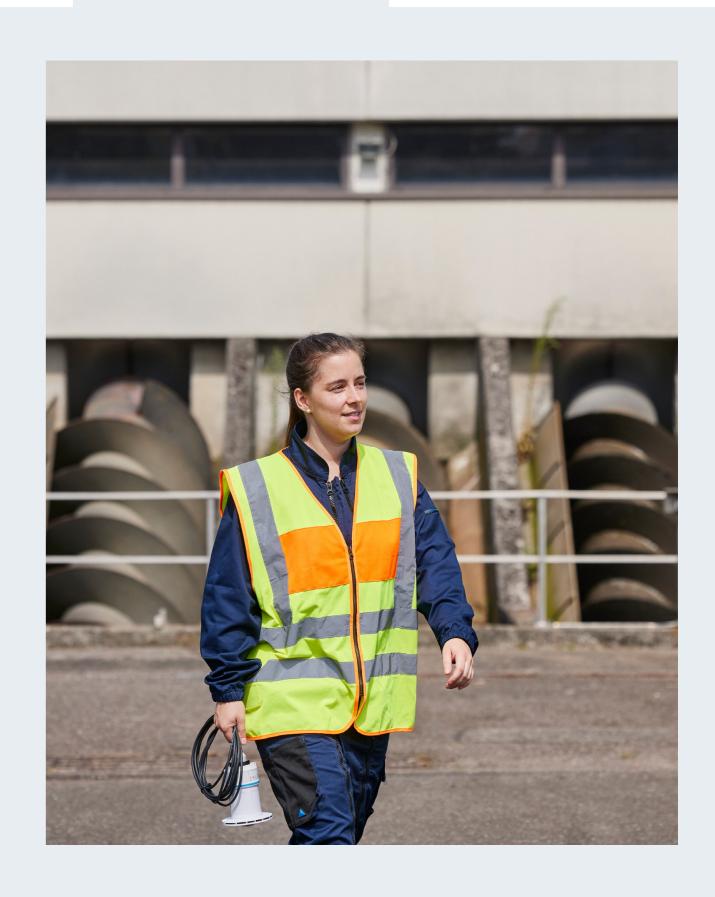
#### IBC and storage tanks

#### Your challenges

- Narrow installation conditions
- Turbulent surface
- Foam
- Ex zone

#### Our solution

The Micropilot FMR20B and FMR30B benefit from 80 GHz technology, which allows highly accurate measurement regardless of installation and application conditions. The availability of the FMR20B and FMR30B in an ATEX version makes them even more applicable.



Universal solution for basic applications

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**Industry Overview** 

Mining, Minerals & Metals

Sewer management

Open channel flow

Pump station / lift station

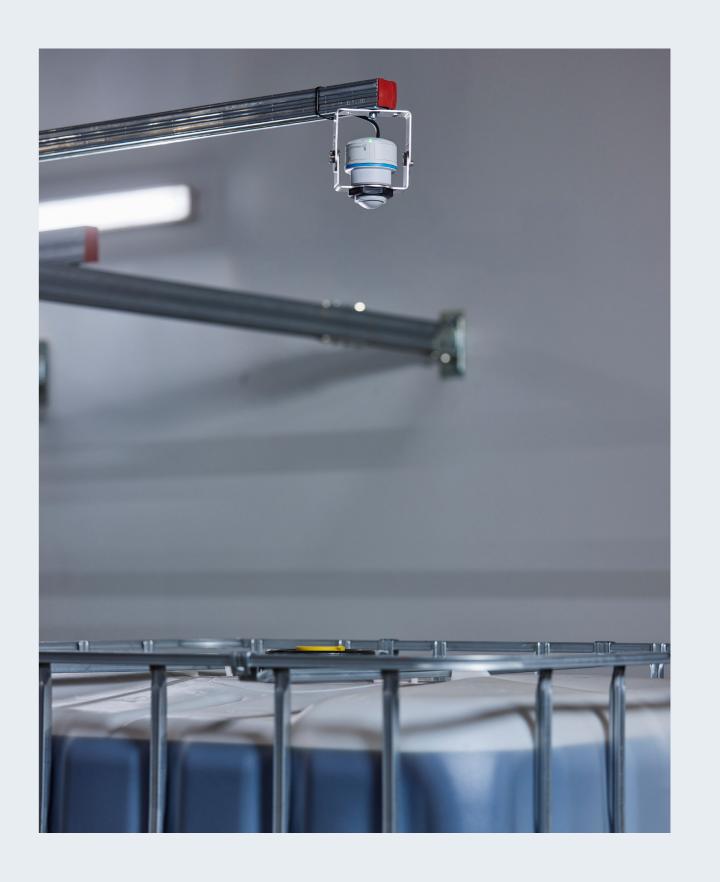
IBC and storage tanks

#### Your challenges

- Ex zone
- Different media types
- Chemical resistance

#### **Our solution**

The Micropilot FMR10B (for ATEX) allows the installation directly on the inner side of the tank or measuring through the plastic tank, making it independent of media types and impacts.



# Mining, Minerals & Metals

Reliable solution for solids

The Micropilot FMR10B, FMR20B and FMR30B help you master your challenges by enabling easy integration, selection and commissioning.

**Industry Overview** 

Water & Wastewater

Silos

#### Bunker and stock piles



# Mining, Minerals & Metals

Reliable solution for solids

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**Industry Overview** 

Water & Wastewater

#### Silos

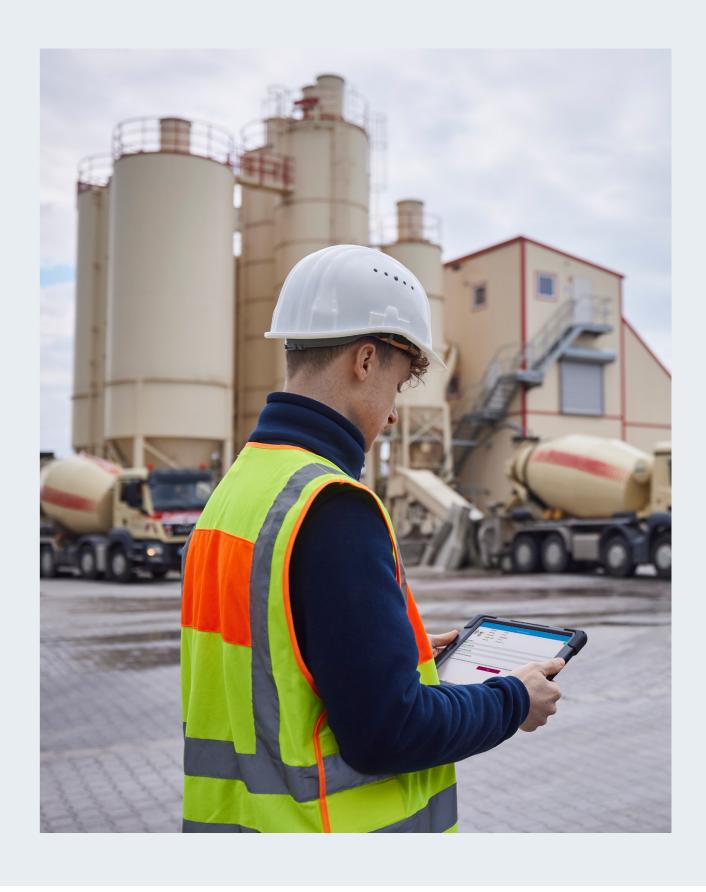
Your challenges

- Strong variety in size and dc-value of the media
- Ex zone and dust

#### Our solution

The Micropilot FMR20B and FMR30B offer a range of individual options such as ATEX permission, approvals for food contact material, DN80 antenna providing smaller beam angle and stronger signal.

#### Bunker and stock piles



# Mining, Minerals & Metals

Reliable solution for solids

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**Industry Overview** 

Water & Wastewater

#### Silos

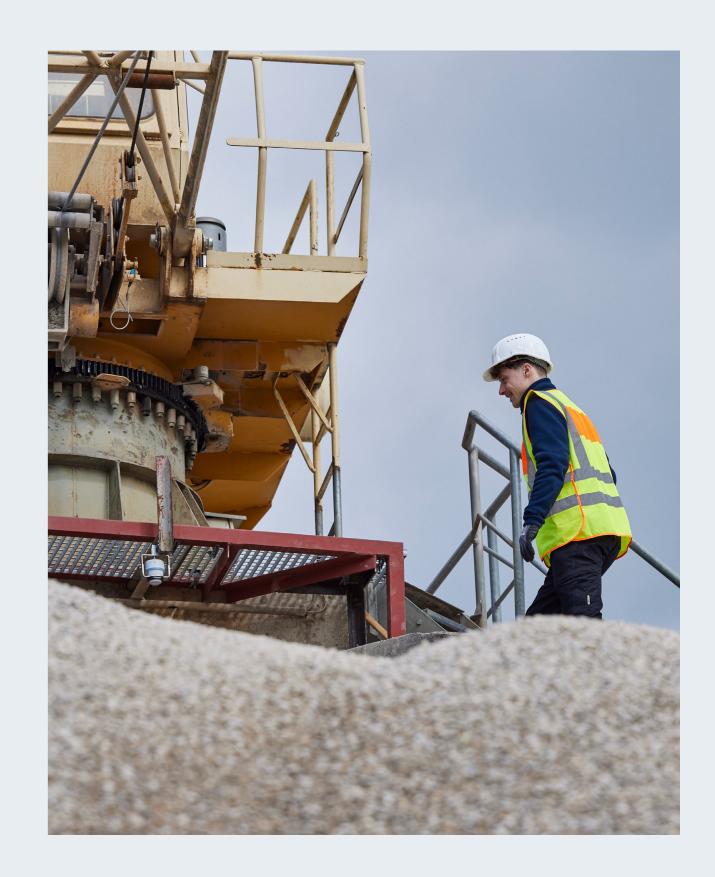
#### Bunker and stock piles

#### Your challenges

- Changing weather conditions (sun, wind, rain, snow)
- Strong variety of grain sizes

#### Our solution

The weather protective cover for the Micropilot FMR10B, FMR20B and FMR30B protects against several environmental influences.



# Product overview

Micropilot FMR10B, FMR20B and FMR30B

The product family of Micropilot FMR10B, FMR20B and FMR30B stands for simple and efficient level measurement in liquids and solids.

