

Solutions for the Water and Wastewater industry

Simple and efficient level measurements in sewer systems

Advantages for the customer:

- Compact design, side cable outlet, bracket for ceiling mounting and remote commissioning via Bluetooth® allow installation in almost any location, even confined spaces.
- Flood-protection tube prevents signal interruptions and ensures safe operation.
- Certification for protection against explosion, including for the display version.
- Intuitive remote use via app and on-device with the color touch display of the FMR30B ensures fast handling and control.
- Guided setup sequences (called "wizards") simplify commissioning, proof tests and verification.
- Heartbeat Technology enables verification and diagnosis during operation without removing the device. Certified, verifiable and documented in accordance with ISO 9001.



Remote access via tablet or smartphone



Efficient level management in sewer management

Reliable level measurements in sewer systems to avoid process interruptions - supported by simple and fast operation and maintenance.

The challenge The level measurement in sewer systems is often challenging due to various influences. Installation is often needed in very tight spaces, such as shafts or hatches. It is not uncommon for these areas to also be at risk of explosion. In addition, the highly variable media in sewer areas can cause flooding, foaming or condensation. These surface formations have an impact on measurement accuracy and also come along with the risk of signal interruptions and process downtimes.

Our solution The simpler, the better: Endress+Hauser's answer to these challenges is the new product family Micropilot FMR10B, FMR20B, FMR30B. Characterised by the 80 GHz

radar technology, the devices deliver highly accurate and reliable measurements independent from setup conditions. The simple, compact design and handling of the devices makes them the perfect match for the main level measurement tasks in a sewer management. Thanks to the variety of available accessories, individual requirements can be faced without any challenge. For example, the option of a lateral cable outlet or the brackets for ceiling mounting brings the necessary flexibility for installation in very tight spaces. The option of a flood-protection tube helps to prevent signal interruptions. In addition, remote access via Bluetooth simplifies operation and makes it possible from any point of access.



The new product family Micropilot FMR10B, FMR20B, FMR30B

Details of the solution With the new product family a highly accurate measurement is ensured by the 80 GHz technology and the right accessories and approvals for special applications. For example, the Micropilot FMR20B and FMR30B are available with explosion protection certification for explosive conditions. Side cable outlets and brackets for ceiling mounting facilitate the use in hard-to-reach places. The flood-protection tube ensures that precise measurement results are reliably transmitted without signal interruption, ensuring a safe operation even under challenging conditions.

The Micropilot FMR10B, FMR20B, FMR30B also support the users with setup sequences (called “wizards”) that guide them simply through commissioning – enabling the device to be commissioned in under three minutes. The integrated Heartbeat Technology offers traceable verification in accordance with ISO 9001, which can also be easily conducted with guiding wizards for proof tests and verification.

Customer benefit Our compact 80 GHz radar sensors have been specially designed for customers needing a reliable and universal level measurement for their main tasks in liquid applications, regardless of installation conditions and external influences.

Operation is made especially simple thanks to the intuitive remote accessibility of the new devices, using the Endress+Hauser SmartBlue app via any mobile device, such as a smartphone or tablet. In addition, the Micropilot FMR30B offers comfortable on-device access thanks to its unique color touch display that can be checked quickly and safely without opening the lid.

The integrated “It’s me-function” allows each device to be quickly and clearly identified through the flashing LED or display. The LEDs and the display also provide precise information on the status of each device during operation. And Heartbeat Verification enables simply guided verification – which can be made available to auditors at any time without further effort. The multiple benefits add up to both improved productivity and reduced complexity.

www.addresses.endress.com