

# Endress+Hauser Radar steps into new dimensions

Micropilot FMR10/FMR20 – innovative and efficient

**The new Micropilot FMR10 and FMR20 Endress+Hauser offer perfect application fit devices for level measurement in the Water & Wastewater industry and Utilities in all industries. Time saving and innovative commissioning, operation and maintenance via app using *Bluetooth*® wireless technology convince as well as a perfect price-performance-ratio due to unique radar chip design.**

Micropilot FMR10 and FMR20 belong to the first non-contact radars with *Bluetooth*® commissioning, operation and maintenance app. Signal curves can be shown via app on every *Bluetooth*® enabled smartphone or tablet (iOS, Android). This increases plant availability due to fast access to maintenance information, and guarantees cost savings because of the usage of existing non-proprietary tool infrastructure. Furthermore FMR10 and FMR20 are the most compact radars in their class thanks to unique radar chip design with integrated radio frequency components and direct emission transceiver – invented by Endress+Hauser. With the compact design the devices fit also in limited space applications, which mean an extended application scope for the radar technology.

Micropilot FMR10 and FMR20 are providing best price-performance ratio. For the first time radar technology is available in price range of typical water and wastewater level devices. Especially for this industry and utilities in all industries the devices fit the needs: Easy setup with just three main parameters and a remote indicator solution resulting in time savings and enhanced safety.

The full PVDF body of the device resists outdoor conditions and guarantees a long sensor lifetime. Sealed wiring and fully potted electronics eliminate water ingress and allow operation under harsh environmental conditions, which means enhanced availability. Also in hazardous areas or places difficult to reach, safe and secure wireless remote access via *Bluetooth* offers a lot of advantages. There is no additional tool and adapter or wiring effort required. It is as simple as this: Connect – set – ready!  
The communication is absolute secure due to encrypted data transmission and password protected communication so that unauthorised access or manipulation is not possible.

Micropilot FMR10 and FMR20 form the beginning of a new generation of radar devices for the Water and Wastewater industry and Utilities in all industries. Endress+Hauser as full service supplier offers a broad range of technologies to find the best fit for every application – be it ultrasonic, hydrostatic or radar.

#### Technical details Micropilot FMR10:

- Level measurement
- Wireless commission via *Bluetooth®* app
- 4 to 20mA output signal
- Non Ex
- Measuring range: 5m
- Accuracy:  $\pm 5\text{mm}$
- Process/Ambient temperature:  $-40$  to  $+60^{\circ}\text{C}$
- Ingress protection: IP66 / NEMA4x
- Fixed cable length: 10m



**E+H direct**  
High Quality – Low Price!



#### Technical details Micropilot FMR20:

- Level and Flow (with open channels or weirs, via linearization table)
- Commissioning via HART or optionally wireless via *Bluetooth®* app
- Optional with RIA15 remote display for commissioning
- 4 to 20mA / HART output signal
- Gas Ex approvals
- Measuring range: 10m or 20m
- Accuracy:  $\pm 2\text{mm}$
- Process/Ambient temperature:  $-40$  to  $+80^{\circ}\text{C}$
- Ingress protection: IP66/68, NEMA4x/6P
- Cable length: up to 300 m



**HART**  
COMMUNICATION PROTOCOL



For further information, please visit <http://bit.ly/2OUWoxM>

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