

Product Information



Endress + Hauser
Micropilot M

FOUNDATION

Category:	Level
Revision:	3
Type:	Radar Level Transmitter
Registered Function Blocks:	2xAI(s), 1xPID(s), 1xRB(s)
Other Blocks:	1xTB(c), 1xAR(c), 1xIS(c), 1xIT(c)
H1 Profile Class:	31PS, 32L
H1 Device Class:	Link Master
Test Campaign Number:	IT016600
MANUFAC_ID (HEX):	452B48
DEV_TYPE (HEX):	100F
DEV_REV (HEX):	03
Device Tester Version:	4.01
Test Status:	Registered



Stack

Manufacturer (H1):	Endress + Hauser
Revision (H1):	1.0
Test Campaign Number (H1):	CT0021FF

Physical Layer

Physical Layer types:	511 - Low-power signaling, bus-powered, FISCO I.S.
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Test Campaign Number: PT-025

Device Description and Capabilities File

DD Version: 0x03
DD/CFF Files: [Download DD/CFF File](#)
DD/CFF Tester Version: 4.6

Previous Registrations

Previous Revisions (DEV_REV):
[Click to view Previous Versions](#)

More Information

More Information:

Smart Transmitter for continuous and non-contact level measurement Cost-effective 2-wire technology Suitable for hazardous locations

Application

The Micropilot M is used for continuous, non-contact level measurement of liquids, pastes, and slurries. The measurement is not affected by changing media, temperature changes, gas blankets or vapours.

The FMR 230 is especially suited for measurement in buffer and process tanks. The FMR 231 has its strengths wherever high chemical compatibility is required. The FMR 240 with the small (1½") horn antenna is ideally suited for small vessels. Additionally, it provides an accuracy of ± 3 mm. The Wave Guide provides the solution for horizontal cylindrical tanks. The FMR 244 combines the advantages of the horn antenna with high chemical resistance. The FMR 245 - highly resistant, easy to clean.

Your benefits:

- A real alternative to differential pressure, floats and displacers.
- 2-wire technology reduces wiring costs and allows easy implementation into existing systems.

- Non-contact measurement.
- Measurement is almost independent from product properties.
- Easy on-site operation via menu-driven alphanumeric display.
- Easy commissioning, documentation and diagnostics via operating software (ToF Tool).
- 2 frequency ranges approx. 6 GHz (FMR 230/FMR 231) and 26 GHz (FMR 240/244/245) : No compromises, the right frequency for every application.
- Foundation Fieldbus or HART respectively PROFIBUS PA protocol.
- High temperatures: Suitable for process temperatures up to +200 °C (392 °F), up to 400 °C (752 °F) with high-temperature antenna.
- Rod antenna with inactive length: Reliable measurement in narrow nozzles, with condensation and build-up in the nozzle.
- Application in safety related systems (overspill protection) with requirements for functional safety up to SIL 2 in accordance to IEC 61508/IEC 61511-1.

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