

Micropilot M FMR231



More information and current pricing:

www.us.endress.com/FMR231

Benefits:

- Non-contact measurement: Measurement is almost independent from product properties
- 2-wire technology, low price: A real alternative to differential pressure, floats and displacers.
2-wire technology reduces wiring costs and allows easy implementation into existing systems
- Easy commissioning, documentation and diagnostics via Endress+Hauser operating software
- Easy on-site operation via menu-driven alphanumeric display
- Used for level monitoring (MIN, MAX) up to SIL2 as per IEC 61508/IEC 61511-1
- HART or PROFIBUS PA respectively FOUNDATION Fieldbus protocol
- Option: Gastight feedthrough to improve the process safety

Specs at a glance

- **Accuracy** +/- 10 mm
- **Process temperature** -40 °C...+150 °C (-40 °F...+302 °F)
- **Process pressure / max. overpressure limit** Vacuum...40 bar (Vacuum...580 psi)
- **Max. measurement distance** Max. measurement distance
- **Main wetted parts** PTFE, PPS + 316L

Field of application: Micropilot FMR231 has its strengths wherever high chemical compatibility is required. Rod antenna with inactive length: Reliable measurement in narrow nozzles, with condensation and build-up in the nozzle. The FMR231 is used for continuous, non-contact level measurement of liquids, pastes, slurries and solids. The measurement is not affected by changing media, temperature changes, gas blankets or vapors.

Features and specifications

Continuous / Liquids**Measuring principle**Level radar

Characteristic / ApplicationCharacteristic / Application

Supply / Communication2-wire (HART / PROFIBUS PA / FOUNDATION
Fieldbus)

FrequencyC-band (~6 GHz)

Accuracy+/- 10 mm

Ambient temperature-40 °C...+80 °C
(-40 °F...+176 °F)

Process temperature-40 °C...+150 °C
(-40 °F...+302 °F)

Process pressure / max. overpressure limitVacuum...40 bar
(Vacuum...580 psi)

Main wetted partsPTFE, PPS + 316L

Process connectionThread:
NPT 1 1/2, R 1 1/2
Flange:
DN50...DN150,
ASME 2"...6",
JIS 10K

Continuous / Liquids

Process connection hygienic

Tri-Clamp ISO2852
DIN11864-1
DIN11851

Application

Application

Max. measurement distance

Max. measurement distance

Communication

4...20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus

Certificates / Approvals

ATEX, FM, CSA, IECEx, TIIS, NEPSI
Overfill prevention WHG
SIL
EN10204-3.1
Marine GL/ABS/NK

Application limits

Application limits

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