

Radar measurement Time-of-Flight Micropilot FMR53

For simple level measurement applications in liquids



Lợi ích:

- Reliable non-contact measurement even for changing product and process conditions
- HistoROM data management concept for fast and easy commissioning, maintenance and diagnostics
- Highest reliability even in the presence of obstructions in the vessel due to new Multi-Echo Tracking evaluation
- Hardware and software developed according to IEC 61508 up to SIL3 (in homogeneous redundancy)
- Heartbeat Technology for a cost-effective and safe plant operation during the entire life cycle
- Seamless integration into control or asset management systems and intuitive, menu-guided operation concept (on-site or via the control system)
- World's easiest proof test concept for SIL and WHG saves time and cost

Thông tin thêm và mức tính giá hiện tại:

www.apsc.endress.com/FMR53

Tổng quan về thông số kỹ thuật

- **Accuracy** +/- 6 mm (0.24 in)
- **Process temperature** -40...+150 °C (-40...+302 °F)
- **Process pressure absolute / max. overpressure limit**
Vacuum...40 bar (Vacuum...580 psi)
- **Max. measurement distance** Max. measurement distance
- **Main wetted parts** PTFE, PVDF

Phạm vi ứng dụng: Micropilot FMR53 for simple level measurement applications in liquids. With its slim rod antenna, FMR53 free space radar is particularly suited for small process connections. The PTFE coating of the rod antenna and flange plating guarantee resistance also in

aggressive media. The Micropilot FMR53 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 vapors.

Tín năng và thông số kỹ thuật

Continuous / Liquids

Measuring principle

Level radar

Characteristic / Application

For common non-contact continuous level measurement in liquids, especially suited for small process connections and for chemically aggressive media;

Rod antenna with PTFE coating

Specialities

Heartbeat Technology,

SIL 2 according to IEC 61508,

Bluetooth® commissioning,

Operation and maintenance SmartBlue App,

Safety and reliability with Multi-Echo Tracking,

HistoROM,

RFID TAG for easy identification

Supply / Communication

2-wire (HART / PROFIBUS PA/ FOUNDATION Fieldbus)

4-wire (HART)

Bluetooth® wireless technology and App (optional)

Continuous / Liquids**Frequency**C-band (~6 GHz)

Accuracy+/- 6 mm (0.24 in)

Ambient temperature

-40...+80 °C

(-40...+176 °F)

Process temperature

-40...+150 °C

(-40...+302 °F)

Process pressure absolute / max. overpressure limit

Vacuum...40 bar

(Vacuum...580 psi)

Main wetted partsPTFE, PVDF

Process connection

Thread:

MNPT 1 1/2, R 1 1/2

Flange:

DN50...DN150,

ASME 2"...6",

JIS 10K

Continuous / Liquids**Application**

Application

Max. measurement distance

Max. measurement distance

Communication

4...20 mA HART

PROFIBUS PA

FOUNDATION Fieldbus

Bluetooth® wireless technology

Certificates / Approvals

ATEX, FM, CSA, CSA C/US, IEC Ex, JPN Ex, INMETRO, NEPSI, KC

Safety approvals

Overfill protection WHG

SIL

Design approvals

EN 10204-3.1

ASME B31.3

AD2000

Continuous / Liquids

Options

Display,

Remote operation via SmartBlue App using Bluetooth[®],

Customized parameterization,

Gas-tight feed through,

PWIS free

Application limits

Application limits

Thông tin bổ sung www.apsc.endress.com/FMR53