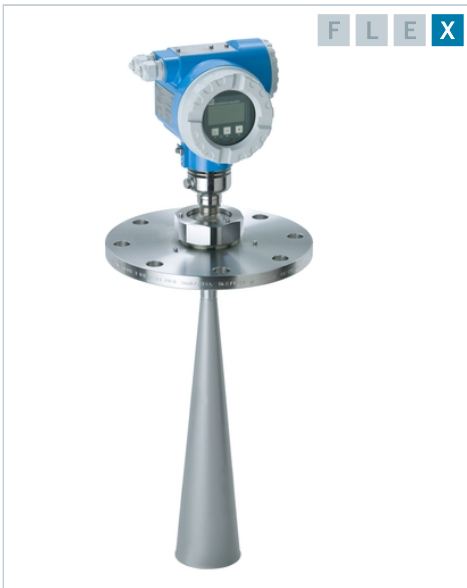


Radar measurement Micropilot FMR540

Horn antenna and parabolic antenna for custody transfer applications



Thông tin thêm và mức tính giá hiện tại:

www.apsc.endress.com/FMR540

Lợi ích:

- Better than 1mm accuracy
- National approvals (NMI, PTB) for custody transfer
- Applicable as stand-alone system or integrated into tank gauging systems via the Tank Side Monitor NRF590
- Cost-effective and simple installation via 4-wire cable with HART and 24 V DC intrinsically safe power supply
- Alignment device to compensate any flange inclination
- Easy on-site operation via menu-driven alphanumeric display
- Easy commissioning, documentation and diagnostics via operating software (FieldCare)

Tổng quan về thông số kỹ thuật

- **Accuracy** +/- 1 mm
- **Process temperature** -40°C...200°C (-40°F...392°F)
- **Process pressure absolute / max. overpressure limit** Horn: Vacuum...16 bar (232 psi) Parabolic: Vacuum...6 bar (87 psi) Use of UNIflange: Vacuum...1 bar (14.5 psi)
- **Max. measurement distance** Max. measurement distance
- **Main wetted parts** 316L

Phạm vi ứng dụng: Micropilot FMR540 is used for custody transfer and inventory control applications with NMI- and PTB-approvals and meets the requirements according to OIML R85 and API 3.1B. FMR540 with parabolic antenna is particularly suited for free space applications up to 40m and with horn antenna for free space applications that disallow the use of a parabolic antenna due to tank/nozzle geometry. Cost-effective and simple installation via 4-wire cable with HART and 24 V DC intrinsically safe power supply.

Tín năng và thông số kỹ thuật

Continuous / Liquids

Measuring principle

Level radar

Characteristic / Application

Horn antenna:

High precision measurement for for storage tanks up to 20 m (65ft)

Parabolic antenna:

High precision measurement for free space applications up to 40 m (131 ft)

Supply / Communication

4-wire (HART)

Frequency

K-band (~26 GHz)

Accuracy

+/- 1 mm

Ambient temperature

Standard:

-40°C...80°C

(-40°F...176°F)

For calibration to regulatory standards:

-25°C...60°C

(-13°F...131°F)

Process temperature

-40°C...200°C

(-40°F...392°F)

Process pressure absolute / max. overpressure limit

Horn: Vacuum...16 bar (232 psi)

Parabolic: Vacuum...6 bar (87 psi)

Use of UNIflange: Vacuum...1 bar (14.5 psi)

Continuous / Liquids**Main wetted parts**

316L

Process connection

Horn Antenna: DN100, DN150 Flange

UNIFlange DN150, DN200, DN250

Parabolic antenna: UNIflange with Top Target
positioner DN200, DN250

For dk value < 1.9, contact Endress+Hauser

Application

Application

Max. measurement distance

Max. measurement distance

Communication

4...20 mA HART

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, NEPSI

Application limitsMaximum measuring range is dependent on the tank form and/or
application

Strong condensate or build-up formation

FMR53x

Existing stilling wells with non-ideal measuring conditions

FMR532

Thông tin bổ sung www.apsc.endress.com/FMR540