

Radar measurement Micropilot FMR532

For high accurate non-contact level measurement in stilling well applications in custody transfer



More information and current pricing:

www.endress.com/FMR532

Benefits:

- 0.8mm accuracy (2σ value)
- National approvals (NMI, PTB) for custody transfer
- Applicable as stand-alone system or integrated into tank gauging systems via the Tank Side Monitor NRF590
- Easy on-site operation via menu-driven alphanumeric display
- Easy commissioning, documentation and diagnostics via FDT/DTM technology (FieldCare)
- Cost-effective and simple installation via 4-wire cable with HART and 24 V DC intrinsically safe power supply
- Unique drip-off antenna design eliminates measurement error due to condensation build-up

Specs at a glance

- **Accuracy** +/- 1 mm, custody transfer
- **Process temperature** -40 °C ... 150 °C (-40 °F ... 302 °F)
- **Process pressure / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 362 psi)
- **Max. measurement distance** 40 m (131 ft)
- **Main wetted parts** 316L + PTFE

Field of application: The Micropilot FMR532 is used for custody transfer and inventory control applications with NMI- and PTB-approvals. It meets the relevant requirements according to OIML R85 and API 3.1B. The FMR532 free space radar with planar antenna is specifically suited for stilling well applications. Micropilot FMR532 offers cost-effective and

simple installation via 4-wire cable with HART and 24 V DC intrinsically safe power supply.

Features and specifications

Continuous / Liquids

Measuring principle

Level radar

Characteristic / Application

Characteristic / Application

Supply / Communication

4-wire (HART)

Frequency

C-band (~6 GHz)

Accuracy

+/- 1 mm, custody transfer

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 ... 150 °C

(-40 °F ... 302 °F)

Process pressure / max. overpressure limit

Vacuum ... 25 bar

(Vacuum ... 362 psi)

Main wetted parts

316L + PTFE

Continuous / Liquids

Process connection

DN150 ... DN300 / 6" ... 12"

Max. measurement distance

40 m (131 ft)

Communication

4 ... 20 mA

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, NEPSI

Design approvals

EN 10204-3.1

NACE MR0175, MR0103

Marine approval

GL/ ABS

Application limits

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

Free space and many baffles

FMR540

More information www.endress.com/FMR532