

Micropilot S FMR533



More information and current pricing:

www.de.endress.com/FMR533

Benefits:

- 0.5mm 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)
- Application-specific antenna selection
- Gastight process connection (second line of defense) standard for any antenna version

Specs at a glance

- **Accuracy** +/- 1 mm, custody transfer
- **Process temperature** -40 °C ... 200 °C (-40 °F ... 392 °F)
- **Process pressure / max. overpressure limit** Vacuum ... 16 bar (Vacuum ... 232 psi)
- **Max. measurement distance** Max. measurement distance
- **Main wetted parts** 316L + PTFE

Field of application: Micropilot FMR533 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 FMR533 radar with parabolic antenna is excellently suited for free space applications up to 40m (131ft). Micropilot FMR533 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

Continuous / Liquids**Characteristic / Application**Characteristic / Application

Supply / Communication4-wire (HART)

FrequencyC-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 ... 200 °C

(-40 °F ... 392 °F)

Process pressure / max. overpressure limit

Vacuum ... 16 bar

(Vacuum ... 232 psi)

Main wetted parts316L + PTFE

Process connectionDN150 ... DN250 / 6" ... 10"

Max. measurement distanceMax. measurement distance

Continuous / Liquids

Communication

4 ... 20 mA HART

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, NEPSI

Safety approvals

Overfill prevention WHG

Application limits

Application limits

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