

# Micropilot S FMR533



More information and current pricing:

[www.th.endress.com/FMR533](http://www.th.endress.com/FMR533)

## Benefits:

- 0.5mm accuracy ( $2\sigma$  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 absolute / 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

Level radar

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**Continuous / Liquids**

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**Characteristic / Application**

Characteristic / Application

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**Supply / Communication**

4-wire (HART)

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**Frequency**

C-band (~6 GHz)

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**Accuracy**

+/- 1 mm, custody transfer

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**Ambient temperature**

Standard:

-40 °C ... 80 °C

(-40 °F ... 176 °F)

For calibration to regulatory standards:

-25 °C ... 60 °C

(-13 °F ... 131 °F)

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**Process temperature**

-40 °C ... 200 °C

(-40 °F ... 392 °F)

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**Process pressure absolute / max. overpressure  
limit**

Vacuum ... 16 bar

(Vacuum ... 232 psi)

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**Main wetted parts**

316L + PTFE

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**Process connection**

DN150 ... DN250 / 6" ... 10"

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**Max. measurement distance**

Max. measurement distance

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## Continuous / Liquids

### Communication

4 ... 20 mA HART

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### Certificates / Approvals

ATEX, FM, CSA, IEC Ex, NEPSI

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### Safety approvals

Overfill prevention WHG

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### Application limits

Application limits

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