



**Toepassingsgebied:** Voor toepassingen in agressieve vloeistoffen biedt de Micropilot FMR52 met zijn volledig met PTFE gevulde en verzonken hoornantenne buitengewone voordelen. De FMR52 is ook geschikt voor hygiënegevoelige toepassingen in de voedingsmiddelen- en life sciences-industrie. Het instrument voldoet aan de eisen van ASME BPE, USP klasse VI, 3-A en EHEDG. De Micropilot wordt gebruikt voor continue contactloze niveaumetingen in vloeistoffen, pasta's en slurries. De meting wordt niet beïnvloed door veranderende media, temperatuurwisselingen, gas- of dampvorming.

## Kenmerken en specificaties

### Continuous / Liquids

#### Meetprincipe

Level radar

#### Characteristic / Application

Premium device for continuous non-contact level measurement, in which aggressive media are used as well as for highest hygiene requirements (ASME BPE, USP Class VI);

Flush mounted, fully PTFE filled horn antenna

#### 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)

#### Frequency

K-band (~26 GHz)

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**Continuous / Liquids****Accuracy**

+/- 2 mm (0.08 in)

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**Ambient temperature**

-50...+80 °C  
(-58...+176 °F)

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**Process temperature**

-196...+200 °C  
(-321...+392 °F)

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

Vacuum...25 bar  
(Vacuum...363 psi)

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**Main wetted parts**

PTFE

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**Process connection**

Flange:  
DN50...DN150  
ASME 2"...6"  
JIS 10K

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**Process connection hygienic**

Tri-Clamp ISO2852  
DIN11851

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**Max. meetafstand**

Standard: 40 m (131 ft)  
With advanced dynamics: 60 m (197 ft)

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**Communication**

4...20 mA HART  
PROFIBUS PA  
FOUNDATION Fieldbus  
Bluetooth® wireless technology

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**Continuous / Liquids****Certificates / Approvals**

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

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**Safety approvals**

Overfill protection WHG

SIL

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**Design approvals**

EN 10204-3.1

ASME B31.3

AD2000

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**Hygienic approvals**

3A, EHEDG

CoC ASME-BPE

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**Marine approval**

GL/ ABS/ LR/ BV/ DNV

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**Options**

Display,

Customized parameterization,

Remote operation via SmartBlue App using Bluetooth<sup>®</sup>,

Gas-tight feed through,

PWIS free

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**Application limits**

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

Ammoniacal gas phase:

FMR54 in stilling well

Strong build-up formation:

FMR54 with air purge

Custody transfer measurement:

FMR5xx

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Meer informatie [www.be.endress.com/FMR52](http://www.be.endress.com/FMR52)