Radar measurement Time-of-Flight Micropilot FMR52

For level measurement in aggressive liquids or applications with hygiene requirements

Avantajlar:

- Hardware and software developed according to IEC 61508 up to SIL3 (in homogeneous redundancy)
- Reliable non-contact measurement even for changing product and process conditions
- HistoROM data management concept for fast and easy commissioning, maintenance and diagnostics
- Highest reliability even in the presence of obstructions in the vessel due to new Multi-Echo Tracking evaluation
- Heartbeat Technology for a cost-effective and safe plant operation during the entire life cycle
- Seamless integration into control or asset management systems and intuitive, menu-guided operation concept (on-site or via the control system)
- World's easiest proof test concept for SIL and WHG saves time and cost

Özelliklere genel bakış

- Accuracy +/- 2 mm (0.08 in)
- Process temperature -196...+200 °C (-321...+392 °F)
- Process pressure / max. overpressure limit Vacuum...25 bar (Vacuum...363 psi)
- Max. measurement distance Standard: 40 m (131 ft) With advanced dynamics: 60 m (197 ft)
- Main wetted parts PTFE

Uygulama alanı: For applications in aggressive liquids Micropilot FMR52 offers extraordinary advantages with its completely PTFE-filled and flush-mounted horn antenna. The FMR52 is also the sensor for hygiene-





Daha fazla bilgi ve güncel fiyatlandırma: www.tr.endress.com/FMR52 sensitive applications in the food and life sciences industry - ASME BPE, USP Class VI, 3-A and EHEDG approvals. Micropilot is used for continuous, non-contact level measurement of liquids, pastes and slurries. The measurement is not affected by changing media, temperature changes, gas blankets or vapors.

Özellikler ve şartlar

Continuous / Liquids	Measuring principle 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)
	Accuracy
	+/- 2 mm (0.08 in)

Continuous / Liquids

Ambient temperature

-50...+80 °C (-58...+176 °F)

Process temperature

-196...+200 °C (-321...+392 °F)

Process pressure / max. overpressure limit

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

Main wetted parts

PTFE

Process connection

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

Process connection hygienic

Tri-Clamp ISO2852 DIN11851

Max. measurement distance

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

Communication

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

Certificates / Approvals

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

Continuous / Liquids

Safety approvals

Overfill protection WHG SIL

Design approvals

EN 10204-3.1 ASME B31.3 AD2000

Hygienic approvals

3A, EHEDG CoC ASME-BPE

Marine approval

GL/ ABS/ LR/ BV/ DNV

Options

Display, Customized parameterization, Remote operation via SmartBlue App using Bluetooth[®], Gas-tight feed through, PWIS free

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

Ayrıntılı bilgi www.tr.endress.com/FMR52

