Guided radar measurement Time-of-Flight Levelflex FMP55

The Multiparameter device is the innovation in interface measurement

More information and current pricing:
www.au.endress.com/FMP55

Benefits:

- Reliable measurement even for changing product and process conditions
- HistoROM data management concept for fast and easy commissioning, maintenance and diagnostics
- Highest reliability due to new Multi-Echo Tracking evaluation
- Hardware and software developed according to IEC 61508 up to SIL3
- 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)
- Worlds easiest proof test for SIL and WHG saves time and costs

Specs at a glance

- **Accuracy** Rod probe : +/- 2 mm (0.08 in) Rope probe: +/- 2 mm (0.08 in) Coaxial probe: +/- 2 mm (0.08 in)
- **Process temperature** -40...+200 °C (-40...+392 °F)
- **Process pressure absolute / max. overpressure limit** Vacuum...40 bar (Vacuum...580 psi)
- **Max. measurement distance** Rod: 4 m (13 ft) Min DK >1.4 Rope: 10 m (33 ft) Min DK >1.4 Coaxial: 6 m (20 ft) Min DK >1.4
- **Main wetted parts** Rod probe: 316L, PTFE, PFA Rope probe: 316, 316L, PTFE, PFA Coaxial probe: 316L, PTFE, PFA

Field of application: Levelflex FMP55 guided radar with SensorFusion offers the worldwide first combination of the capacitance and guided radar measuring principle in one device. The instrument guarantees safe

measured value acquisition even in emulsion layers and issues level and interface layer signals simultaneously. This makes the FMP55 Multiparameter the new standard in interface measurement especially in the oil & gas, chemical and petrochemical industry.

Features and specifications

Continuous / Liquids

Measuring principle
Guided radar

Characteristic / Application
Premium device Multiparameter (capacitance and guided radar)

Rod probe, Rope probe, Coaxial probe

Integrated data memory, Factory precalibrated, Reliable measuring: for interface with emulsion, in case of moved surface + foam, for changing medias.

Interface measurement
Interfaces liquid / liquid also with emulsion layers;

Simultaneous measurement of interface and overall level

Specialities
Heartbeat Technology,

Bluetooth® commissioning,

Operation and maintenance SmartBlue App,

HistoROM,

RFID TAG for easy identification

Continuous / Liquids

Supply / Communication

2-wire (HART / PROFIBUS PA/ FOUNDATION Fieldbus)

4-wire (HART)

Bluetooth® wireless technology and App (optional)

Accuracy

Rod probe :

+/- 2 mm (0.08 in)

Rope probe:

+/- 2 mm (0.08 in)

Coaxial probe:

+/- 2 mm (0.08 in)

Ambient temperature

-40...+80 °C

(-40...+176 °F)

Process temperature

-40...+200 °C

(-40...+392 °F)

Process pressure absolute / max. overpressure limit

Vacuum...40 bar

(Vacuum...580 psi)

Continuous / Liquids

Main wetted parts

Rod probe:

316L, PTFE, PFA

Rope probe:

316, 316L, PTFE, PFA

Coaxial probe:

316L, PTFE, PFA

Process connection

Flange:

ASME 1 1/2"...6",

DN50...DN150,

JIS 10K

Sensor length

Rod probe: 4 m (13 ft)

Rope probe: 10 m (33 ft)

Coaxial probe: 6 m (20 ft)

Max. measurement distance

Rod: 4 m (13 ft)
Min DK >1.4
Rope: 10 m (33 ft)
Min DK >1.4
Coaxial: 6 m (20 ft)
Min DK >1.4

Continuous / Liquids

Communication

4...20 mA HART

PROFIBUS PA

FOUNDATION Fieldbus

Bluetooth® wireless technology

Certificates / Approvals

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

Safety approvals

SIL

Design approvals

EN 10204-3.1

NACE MR0175, MR0103

ASME B31.1, B31.3

AD2000

Marine approval

GL/ ABS/ LR/ BV/ DNV/ KR

Options

Sensor remote with 3 m/ 9 ft cable,

Remote operation via SmartBlue App using Bluetooth®

More information **www.au.endress.com/FMP55**

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