Guided radar measurement
Time-of-Flight
Levelflex FMP55

The Multiparameter device is the innovation in interface measurement

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)
- World's 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 / 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

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<th>Continuous / Liquids</th>
<th>Measuring principle</th>
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<td>Premium device Multiparameter (capacitance and guided radar)</td>
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<td>Rod probe, Rope probe, Coaxial probe</td>
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<td>Integrated data memory, Factory precalibrated, Reliable measuring: for interface with emulsion, in case of moved surface + foam, for changing medias.</td>
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<th>Interface measurement</th>
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<td>Interfaces liquid / liquid also with emulsion layers;</td>
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<td>Simultaneous measurement of interface and overall level</td>
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<th>Specialities</th>
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<td>Heartbeat Technology,</td>
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<td>Operation and maintenance SmartBlue App,</td>
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<td>4-wire (HART)</td>
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<td>Bluetooth® wireless technology and App (optional)</td>
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Continuous / Liquids

**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 / max. overpressure limit**
- Vacuum...40 bar  
(Vacuum...580 psi)

**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)
Continuous / Liquids

**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

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

**Certificates / Approvals**
- ATEX, FM, CSA C/US, IEC Ex, INMETRO, NEPSI, KC, EAC, JPN Ex, UK Ex

**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.us.endress.com/FMP55](http://www.us.endress.com/FMP55)