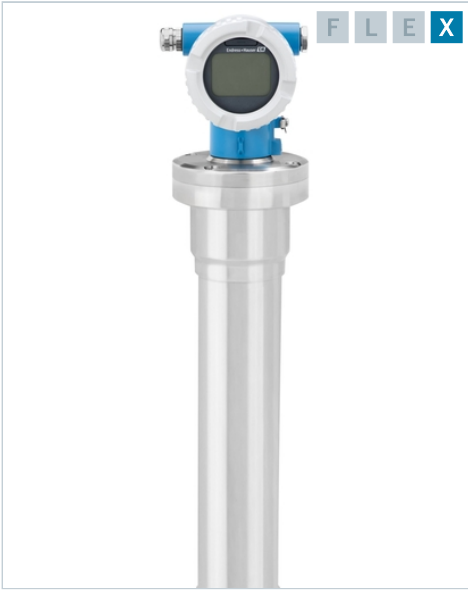


# Radiometric level and density measurement Gammapilot FMG50

Compact transmitter for point level detection, continuous level, interface and density measurement



Daha fazla bilgi ve güncel fiyatlandırma:

[www.tr.endress.com/FMG50](http://www.tr.endress.com/FMG50)

## Avantajlar:

- First real 2-wire loop-powered compact transmitter minimizes engineering and installation efforts
- Reduced installation and engineering costs thanks to the first 2-wire loop powered compact transmitter
- Increased plant safety, efficiency and availability even under extreme process and ambient conditions
- Designed according to IEC 61508 with SIL2/3 approval for all measuring tasks
- Reduced verification effort and minimized plant shut-downs due to state-of-art Heartbeat Technology
- Usage in up to +80°C (+176°F) ambient temperature without additional cooling thanks to innovative sensor technology
- **Bluetooth®** wireless technology for remote operation out of the radiation beam

## Özelliklere genel bakış

- **Process temperature** Any
- **Process pressure absolute / max. overpressure limit** Any
- **Max. measurement distance** Unlimited measuring range, Cascade
- **Accuracy** +/-1%
- **Main wetted parts** Non-contact

**Uygulama alanı:** The Gammapilot FMG50 compact transmitter is designed for non-contact point level detection, continuous level, interface and density measurement in liquids, solids, suspensions or

sludges. As the first true 2-wire loop powered compact transmitter it minimizes engineering and installation efforts.

## Özellikler ve şartlar

### Continuous / Solids

**Measuring principle**

Radiometric

**Characteristic / Application**

Compact transmitter for extreme process conditions (temperature, pressure);

Non-contact measuring technique

**Specialities**

Heartbeat Technology,

SIL 2/3 according to IEC 61508,

Bluetooth® commissioning, operation and maintenance with the SmartBlue App

**Supply / Communication**

2-wire loop powered

**Accuracy**

+/-1%

**Ambient temperature**

-40 °C...+80 °C,

(-40 °F...+176 °F)

**Process temperature**

Any

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

Any

---

**Continuous / Solids****Main wetted parts**Non-contact

---

**Process connection**Non-contact

---

**Sensor length**

PVT scintillator

400 mm...3000 mm,

>3000 mm cascade mode

---

**Max. measurement distance**

Unlimited measuring range,

Cascade

---

**Communication**4...20 mA HART

---

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

---

**Safety approvals**

Overfill protection WHG

SIL 2/3

---

**Design approvals**EN 10204-3.1

---

**Options**Display

---

---

**Continuous / Solids****Components**

Isotope: FSG60, FSG61,

Source container: FQG60, FQG61, FQG62, FQG63, FQG66,

Mounting accessories: FHG61

---

**Point Level / Solids****Measuring principle**Radiometric Limit

---

**Characteristic / Application**

Compact transmitter for extreme process conditions (temperature, pressure);

Non-contact measuring technique

---

**Specialities**

Heartbeat Technology,

SIL 2/3 according to IEC 61508,

Bluetooth® commissioning, operation and maintenance with the SmartBlue App

---

**Supply / Communication**2-wire loop powered

---

**Ambient temperature**

-40 °C...+80 °C,

(-40 °F...+176 °F)

---

**Process temperature**Any

---

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

---

---

**Point Level / Solids**

---

**Main wetted parts**Non-contact

---

**Process connection**Non-contact

---

**Sensor length**

PVT scintillator:

200 mm...400 mm,

NAI scintillator:

50 x 50 mm,

50 x 100 mm

---

**Communication**4...20 mA HART

---

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

---

**Safety approvals**

Overfill protection WHG

SIL 2/3

---

**Design approvals**EN 10204-3.1

---

**Options**Display

---

---

**Point Level / Solids****Components**

Isotope: FSG60, FSG61,

Source container: FQG60, FQG61, FQG62, FQG63, FQG66,

Mounting accessories: FHG61

---

**Density****Measuring principle**Radiometric Density

---

**Characteristic / Application**

Compact transmitter for extreme process conditions (temperature, pressure);

Non-contact measuring technique

---

**Supply / Communication**2-wire loop powered

---

**Ambient temperature**

-40 °C...+80 °C,

(-40 °F...+176 °F)

---

**Process temperature**Any

---

**Process pressure absolute**Any

---

**Wetted parts**Non-contact

---

**Density****Sensor length**

PVT scintillator:

200 mm...400 mm,

NAI scintillator:

50 x 50 mm,

50 x 100 mm

---

**Output**4...20 mA HART

---

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

---

**Options**Display

---

**Specialities**

Heartbeat Technology,

SIL 2/3 according to IEC 61508,

Bluetooth® commissioning, operation and maintenance with the SmartBlue App

---

**Components**

Isotope: FSG60, FSG61,

Source container: FQG60, FQG61, FQG62, FQG63, FQG66,

Mounting accessories: FHG61

---

---

**Continuous / Liquids****Measuring principle**

Radiometric

---

**Characteristic / Application**

Compact transmitter for extreme process conditions (temperature, pressure);

Non-contact measuring technique

---

**Interface measurement**

Interfaces liquid / liquid also with emulsion layers

Interfaces liquid / solid

---

**Specialities**

Heartbeat Technology,

SIL 2/3 according to IEC 61508,

Bluetooth® commissioning, operation and maintenance with the SmartBlue App

---

**Supply / Communication**

2-wire loop powered

---

**Accuracy**

+/-1%

---

**Ambient temperature**

-40 °C...+80 °C,

(-40 °F...+176 °F)

---

**Process temperature**

Any

---

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

Any



---

**Continuous / Liquids****Main wetted parts**Non-contact

---

**Process connection**Non-contact

---

**Sensor length**

PVT scintillator

400 mm...3000 mm,

>3000 mm cascade mode

---

**Max. measurement distance**

Unlimited measuring range,

Cascade

---

**Communication**4...20 mA HART

---

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

---

**Safety approvals**

Overfill protection WHG

SIL 2/3

---

**Design approvals**EN 10204-3.1

---

**Options**Display

---

---

**Continuous / Liquids****Components**

Isotope: FSG60, FSG61,

Source container: FQG60, FQG61, FQG62, FQG63, FQG66,

Mounting accessories: FHG61

---

**Point Level / Liquids****Measuring principle**Radiometric Limit

---

**Characteristic / Application**

Compact transmitter for extreme process conditions (temperature, pressure);

Non-contact measuring technique

---

**Specialities**

Heartbeat Technology,

SIL 2/3 according to IEC 61508,

Bluetooth® commissioning, operation and maintenance with the SmartBlue App

---

**Supply / Communication**2-wire loop powered

---

**Ambient temperature**

-40 °C...+80 °C,

(-40 °F...+176 °F)

---

**Process temperature**Any

---

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

---

---

**Point Level / Liquids**

---

**Main wetted parts**Non-contact

---

**Process connection**Non-contact

---

**Sensor length**

PVT scintillator:

200 mm...400 mm,

NAI scintillator:

50 x 50 mm,

50 x 100 mm

---

**Communication**4...20 mA HART

---

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

---

**Safety approvals**

Overfill protection WHG

SIL 2/3

---

**Design approvals**EN 10204-3.1

---

**Options**Display

---

## Point Level / Liquids

### Components

Isotope: FSG60, FSG61,

Source container: FQG60, FQG61, FQG62, FQG63, FQG66,

Mounting accessories: FHG61

---

Ayrıntılı bilgi [www.tr.endress.com/FMG50](http://www.tr.endress.com/FMG50)