Gammapilot M FMG60



More information and current pricing: www.endress.com/FMG60

Benefits:

- Multifunctional compact transmitter: One instrument for all measuring tasks which results in cost savings in spare parts and maintenance
- SIL2/3 approval in accordance with IEC 61508 for point level detection
- Highest availability, reliability and safety, even for extreme process and ambient conditions
- Highest sensitivity and accuracy at lowest dose rates (ALARA principle)
- Aluminium or stainless steel housing 316L for heavy-duty applications
- 4 to 20mA output for simple plant integration

Specs at a glance

- Process temperature Any
- Process pressure / max. overpressure limit Any
- Min. density of medium Any
- Max. measurement distance Unlimited measuring range Cascade
- Min. conductivity of medium Any

Field of application: The Gammapilot FMG60 compact transmitter is made for non-contact point level detection, continuous level, interface and density measurement in liquids, solids, suspensions or sludges. The variable transmitter concept with NaJ crystal or plastic scintillators in different lengths quarantees optimum adaptation to individual applications. The transmitter contains a scintillator, photomultiplier and evaluation unit.

Features and specifications

Continuous / Liquids

Measuring principle

Radiometric

Continuous / Liquids

Characteristic / Application

Compact transmitter

Non-contact measuring technique, for extreme process conditions (temperature, pressure)

Interface measurement

Interfaces liquid / liquid also with emulsion layers and interfaces liquid / solid

Specialities

Interface, density and mass flow measurement

Supply / Communication

AC: 90-253V DC: 18-36V

Accuracy

+/-1%

Ambient temperature

-40...60°C

(-40...140°F),

With cooling jacket:

0...120°C

(32...248°F)

Process temperature

Any

Process pressure / max. overpressure limit

Any

Main wetted parts

Non-contact

Process connection

Non-contact

Continuous / Liquids

Process connection hygienic

Non-contact

Sensor length

PVT scintillator 400mm...2000mm

>2000mm cascade mode

Max. measurement distance

Unlimited measuring range

Cascade

Communication

4...20 mA HART FOUNDATION Fieldbus PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, INMETRO, JPN, NEPSI, EAC

Safety approvals

SIL1

Components

Isotope: FSG60, FSG61

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

Display: FHX40

Mounting accessories: FHG60

Continuous / Solids

Measuring principle

Radiometric

Characteristic / Application

Compact transmitter

Specialities

Cascading for high silos

Continuous / Solids

Supply / Communication

AC: 90-253V DC: 18-36V

Accuracy

+/-1%

Ambient temperature

-40...60°C

(-40...140°F),

With cooling jacket:

0...120°C

(32...248°F

Process temperature

Any

Process pressure / max. overpressure limit

Any

Main wetted parts

Non-contact

Process connection

Non-contact

Process connection hygienic

Non-contact

Sensor length

PVT scintillator

400mm...2000mm

>2000mm cascade mode

Max. measurement distance

Unlimited measuring range

Cascade

Continuous / Solids

Communication

4...20 mA HART FOUNDATION Fieldbus PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, INMETRO, JPN, NEPSI, EAC

Safety approvals

SIL1

Components

Isotope: FSG60, FSG61

Source container: FQG60, FQG61, FQG62, FQG63,

FQG66

Display: FHX40

Mounting accessories: FHG60

Point Level / Liquids

Measuring principle

Radiometric Limit

Characteristic / Application

Compact transmitter

Specialities

Interface measurement

Supply / Communication

DC: 90-253V AC: 18-36V

Ambient temperature

-40...60°C, (-40...140°F), With cooling jacket:

0...120°C

(32...248°F)

Point Level / Liquids

Process temperature

Any

Process pressure / max. overpressure limit

Any

Min. density of medium

Any

Min. conductivity of medium

Any

Main wetted parts

Non-contact

Process connection

Non-contact

Process connection hygienic

Non-contact

Sensor length

PVT scintillator 200 mm

PVT scintillator 400 mm

Nal scintillator 50x50mm

Communication

4-20mA HART

FOUNDATION Fieldbus

PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, INMETRO, JPN, NEPSI, EAC

Safety approvals

SIL1/SIL2

Point Level / Liquids

Components

Isotope: FSG60, FSG61

Source container: FQG60, FQG61, FQG62, FQG63,

FQG66

Point Level / Solids

Measuring principle

Radiometric Limit

Characteristic / Application

Compact transmitter

Specialities

Optional separate housing

Supply / Communication

AC: 90-253V DC: 18-36V

Ambient temperature

-40...60°C

(-40...140°F),

With cooling jacket:

0...120°C

(32...248°F)

Process temperature

Any

Process pressure / max. overpressure limit

Any

Min. density of medium

Any

Main wetted parts

Non-contact

Point Level / Solids

Process connection

Non-contact

Process connection hygienic

Non-contact

Sensor length

PVT scintillator 200 mm (8") PVT scintillator 400 mm (16") NaJ scintillator 50x50mm (2")

Communication

4...20 mA HART FOUNDATION Fieldbus PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA, IEC Ex, INMETRO, JPN, NEPSI, EAC

Safety approvals

SIL1/SIL2

Components

Isotope: FSG60, FSG61

Source container: FQG60, FQG61, FQG62, FQG63,

FQG66

Density

Measuring principle

Radiometric Density

Characteristic / Application

Compact transmitter with PT100 input for temperature compensation

Density

Supply / Communication

AC: 90-253V DC: 18-36V

Ambient temperature

-40°C...50°C / 60°C

With cooling jacket: 0°C...120°C

Process temperature

Any

Process pressure

Any

Wetted parts

Non-contact

Hygienic

Non-contact

Sensor length

NaJ scintillator 50x50mm PVT scintillator 200...400mm

Output

4-20mA HART FOUNDATION Fieldbus PROFIBUS PA

Certificates / Approvals

ATEX, FM, CSA, IECEx, TIIS, NEPSI, GOST

Components

Isotope: FSG60

Source container: FQG60, FQG61, FQG62, FQG63,

QG2000

Other approvals and certificates

SIL1

More information www.endress.com/FMG60