

Radiometrische niveau- en dichtheidsmeting Gammapilot FMG60

Compacte transmitter voor niveaudetectie,
continue niveau-, interface- en
dichtheidsmeting



Voordelen:

- Multifunctionele compacte transmitter: één instrument voor alle meettaken waardoor kan worden bespaard op kosten voor onderdelen en onderhoud
- SIL2/3-goedkeuring volgens IEC 61508 voor niveaudetectie
- Hoogste beschikbaarheid, betrouwbaarheid en veiligheid, zelfs voor extreme proces- en omgevingsomstandigheden
- Hoogste gevoeligheid en nauwkeurigheid bij de laagste dosispercentages (ALARA-principe)
- Aluminium of roestvrijstalen behuizing 316L voor zware toepassingen
- Uitgangsstroom 4 tot 20 mA voor eenvoudige installatie-integratie

Overzicht specificaties

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

Meer informatie en actuele prijzen:

www.be.endress.com/FMG60

Toepassingsgebied: De Gammapilot FMG60 compacte transmitter is gemaakt voor contactloze niveaudetectie, continue niveau-, interface- en dichtheidsmeting in vloeistoffen, vaste stoffen, suspensies of slib. Het variabele transmitterconcept met NaJ-kristallen of kunststof scintillatoren in verschillende lengten waarborgt een optimale aanpassing aan individuele toepassingen. De transmitter bevat een scintillator, fotomultiplicator en evaluatie-eenheid.

Kenmerken en specificaties

Point Level / Solids

Meetprincipe

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 absolute / max. overpressure limit

Any

Min. density of medium

Any

Main wetted parts

Non-contact

Process connection

Non-contact

Process connection hygienic

Non-contact

Point Level / Solids**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 / ApprovalsATEX, FM, CSA, IEC Ex, INMETRO, JPN, NEPSI, EAC

Safety approvalsSIL1/ SIL2

Components

Isotope: FSG60, FSG61

Source container: FQG60, FQG61, FQG62, FQG63,

FQG66

Density**Meetprincipe**Radiometric Density

Characteristic / Application

Compact transmitter

with PT100 input for

temperature compensation

Supply / Communication

AC: 90-253V

DC: 18-36V

Ambient temperature

-40°C...50°C / 60°C

With cooling jacket: 0°C...120°C

Density

Process temperature

Any

Process pressure absolute

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

Point Level / Liquids

Meetprincipe

Radiometric Limit

Characteristic / Application

Compact transmitter

Point Level / Liquids

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)

Process temperature

Any

Process pressure absolute / 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

NaI scintillator 50x50mm

Point Level / Liquids**Communication**

4-20mA 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

Continuous / Solids**Measuring principle**

Radiometric

Characteristic / Application

Compact transmitter

Specialities

Cascading for high silos

Supply / Communication

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

Accuracy

+/- 1%

Continuous / Solids

Ambient temperature

-40...60°C
(-40...140°F),
With cooling jacket:
0...120°C
(32...248°F)

Process temperature

Any

Process pressure absolute / 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. meetafstand

Unlimited measuring range
Cascade

Communication

4...20 mA HART
FOUNDATION Fieldbus
PROFIBUS PA

Certificates / Approvals

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

Continuous / Solids**Safety approvals**SIL1

Components

Isotope: FSG60, FSG61

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

Display: FHX40

Mounting accessories: FHG60

Continuous / Liquids**Meetprincipe**Radiometric

Characteristic / Application

Compact transmitter

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

Interface measurementInterfaces liquid / liquid also with emulsion layers and interfaces liquid /
solid

SpecialitiesInterface, density and mass flow measurement

Supply / Communication

AC: 90-253V

DC: 18-36V

Accuracy+/-1%

Continuous / Liquids**Ambient temperature**

-40...60°C
(-40...140°F),
With cooling jacket:
0...120°C
(32...248°F)

Process temperature

Any

Process pressure absolute / 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. meetafstand

Unlimited measuring range
Cascade

Communication

4...20 mA HART
FOUNDATION Fieldbus
PROFIBUS PA

Certificates / Approvals

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

Continuous / Liquids

Safety approvals

SIL1

Components

Isotope: FSG60, FSG61

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

Display: FHX40

Mounting accessories: FHG60

Meer informatie www.be.endress.com/FMG60