

Hydrostatische niveaumeting Deltapilot FMB50

Compacte druksensor met Contite-meetcel voor hydrostatische niveaumeting



Meer informatie en actuele prijzen:

www.be.endress.com/FMB50

Voordelen:

- Hermetisch afgedichte vochtbestendige Contite-meetcel, hoge referentienauwkeurigheid: $\pm 0,2\%$, optioneel $\pm 0,1\%$ en minimale temperatueffecten
- Modulair concept voor eenvoudige vervanging van het display of de elektronica
- Naadloze en onafhankelijke systeemintegratie (HART/PA/FF)
- Eenvoudige menugestuurde inbedrijfstelling via lokaal display, 4-20 mA met HART, PROFIBUS PA, FOUNDATION Fieldbus
- Internationaal inzetbaar dankzij een breed scala aan goedkeuringen

Overzicht specificaties

- **Accuracy** Standard 0.2% Optional 0.1%
- **Process temperature** $-10^{\circ}\text{C} \dots 100^{\circ}\text{C}$ ($14^{\circ}\text{F} \dots 212^{\circ}\text{F}$)
- **Pressure measuring range** 100 mbar...10 bar (1.5 psi...150 psi)
- **Process pressure absolute / max. overpressure limit** 40 bar (600 psi)
- **Main wetted parts** Alloy C 316L optional coating AuPt

Toepassingsgebied: De compacte Deltapilot FMB50-transmitter met de vochtbestendige Contite-meetcel wordt veel ingezet voor proces- en hygiënetoepassingen. Het instrument is ontwikkeld voor niveaumetingen in vloeibare en pasta-achtige media in open of gesloten reservoirs, waarbij de metingen niet worden beïnvloed door mogelijke schuimvorming. Voor gebruik in SIL2-veiligheidssystemen.

Kenmerken en specificaties

Continuous / Liquids

Meetprincipe

Hydrostatic

Characteristic / Application

Compact pressure transmitter for hydrostatic level measurement with flush mounted metallic Contite measuring cell:

Hermetically sealed, condensate-resistant and climatic-proofed

Specialities

Modularity to differential pressure and process pressure devices (replacable display, universal electronics)

Diagnostic functions

Hermetically sealed Contite measuring cell (condensate-resistant and climatic-proofed)

Supply / Communication

4...20mA HART:

10,5...45V DC

Ex ia: 10,5...30V DC

PROFIBUS PA /

FOUNDATION Fieldbus:

9...32V DC (Non Ex)

Accuracy

Standard 0.2%

Optional 0.1%

Long term stability

0.05% of URL/year

Ambient temperature

-40°C...85°C

(-40°F...185°F)

Process temperature

-10°C...100°C

(14°F...212°F)

Continuous / Liquids**Process pressure absolute / max. overpressure limit**40 bar (600 psi)

Pressure measuring range100 mbar...10 bar
(1.5 psi...150 psi)

Main wetted partsAlloy C
316L
optional coating AuPt

Process connectionThread:
G1 1/2, MNPT1 1/2
Flange:
DN40...DN100,
ASME 1 1/2"...4",
JIS 10K

Process connection hygienicTri-Clamp
DIN11851
DIN11864-1
NEUMO
Varivent N
SMS
DRD

Max. meetafstand100m (328ft) H2O

Communication4...20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus
IO-Link

Continuous / Liquids

Certificates / Approvals

ATEX, FM, CSA, CSA C/US, IEC Ex, INMETRO, NEPSI

Safety approvals

Overfill protection WHG

SIL

Design approvals

EN10204-3.1

NACE MR0103

Hygienic approvals

3A, EHEDG

CoC ASME-BPE

Marine approval

GL/ ABS/ LR/ BV/ DNV

Drinking water approvals

KTW/ NSF/ ACS

Options

Separate housing

Initial device settings

Overvoltage protection

Application limits

If pressurized, usage of two pressure transmitters to measure the differential pressure (electronic dP)

Observe ratio head pressure : hydrostatic pressure

Pressure

Meetprincipe

Hydrostatic pressure

Pressure

Characteristic

Compact pressure transmitter for hydrostatic level measurement with flush mounted metallic Contite measuring cell:
Hermetically sealed, condensate-resistant, climatic-proofed and with lowest temperature influences

Supply voltage

4...20 mA HART
10,5...45 VDC (Non Ex):
Ex ia: 10,5...30 VDC
PROFIBUS PA:
9...32 VDC (Non Ex)
FOUNDATION Fieldbus:
9...32 VDC (Non Ex)

Reference Accuracy

Standard 0.2 %
Optional 0.1 %

Long term stability

0.05 % of URL/ year

Process temperature

-10°C...100°C
(14°F...212°F)

Ambient temperature

-40°C...85°C
(-40°F...185°F)

Measuring cell

100 mbar...10 bar
(1.5 psi...150 psi)

Smallest calibratable span

10 mbar (1.45 psi)

Vacuum resistance

0 mbar abs.

Pressure

Max. Turn down

100:1

Max. overpressure limit

40 bar (600 psi)

Process connection

Thread:

G1 1/2, MNPT1 1/2

Flange:

DN40...DN100,

ASME 1 1/2"...4",

JIS 10K

Process connection hygienic

Tri-Clamp

DIN11851

DIN11864-1

NEUMO

Varivent N

SMS

DRD

Material process membrane

316L, AlloyC

Gold-Rhodium

Material gasket

None, measuring cell welded

Fill fluid

Inert oil,

Synthetic oil

Material housing

316L, Die-cast aluminum

Pressure

Communication

4...20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus
IO-Link

Certificates / Approvals

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(replacable display, universal electronics)
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