

Waterpilot FMX167



More information and current pricing:

www.apsc.endress.com/FMX167

Benefits:

- Robust overload-resistant high purity ceramic sensor (99.9% Al₂O₃)
- Simultaneous measurement of level and temperature with optionally integrated Pt100 temperature sensor
- Extensive range of accessories provides complete measuring point solutions
- 4 to 20mA output signal with integrated overvoltage protection
- Small outer diameter of 22mm (0.87") version suitable for drinking water applications and for use in bore holes and wells with small diameters

Specs at a glance

- **Accuracy** 0.2%
- **Process temperature** -10°C...70°C (14°F...158°F) Diameter 29mm (1.14"): 0°C...50°C (32°F...122°F)
- **Pressure measuring range** 100mbar...20bar (1.5psi...300psi)
- **Process pressure / max. overpressure limit** 40bar (600psi)
- **Main wetted parts** Diameter 22mm and 42mm: Seal, 316L, Ceramic Diameter 29mm: Seal, PPS, Polyolefin, Ceramic Extension cable: PE, PUR, FEP

Field of application: The Waterpilot FMX167 4 to 20mA transmitter with capacitive, oil-free ceramic measuring cell is typically used in the process and environmental industries for hydrostatic level measurement. It is certified for drinking water with a robust ceramic sensor and integrated temperature measurement. A robust design for applications in wastewaters and sludges or a metal-free version for usage in salt water is also available.

Features and specifications

Pressure

Measuring principle

Pressure

Characteristic

Cable probe for hydrostatic level measurement, with ceramic cell
Diameter = 22mm:
General applications, Drinking water
Diameter = 42mm:
Wastewater applications
Diameter = 29mm:
Salt water applications

Supply voltage

10...30V DC

Reference Accuracy

0.2%

Long term stability

0.1% of URL/year

Process temperature

-10°C...70°C
(14°F...158°F)
Diameter 29mm (1.14"): 0°C...50°C
(32°F...122°F)

Ambient temperature

-10°C...70°C
(14°F...158°F)
Diameter 29mm (1.14"):
0°C...50°C
(32°F...122°F)

Measuring cell

40bar (600psi)

Communication

4...20 mA

Pressure**Certificates / Approvals**ATEX, FM, CSA

Marine approvalsGL/ ABS

Drinking water approvalsNSF/ KTW/ ACS

SuccessorFMX21 with analog output

Continuous / Liquids**Measuring principle**

Characteristic / ApplicationCable probe for hydrostatic level
measurement,

with ceramic cell

Diameter = 22mm:

General applications, Drinking water

Diameter = 42mm:

Wastewater applications

Diameter = 29mm:

Salt water applications

Specialitiesversion w/o metal parts in contact to process

Supply / Communication10...30V DC

Accuracy0.2%

Long term stability0.1% of URL/year

Continuous / Liquids**Ambient temperature**

-10°C...70°C

(14°F...158°F)

Diameter 29mm (1.14"):

0°C...50°C

(32°F...122°F)

Process temperature

-10°C...70°C

(14°F...158°F)

Diameter 29mm (1.14"): 0°C...50°C

(32°F...122°F)

Process pressure / max. overpressure limit

40bar (600psi)

Pressure measuring range

100mbar...20bar

(1.5psi...300psi)

Main wetted parts

Diameter 22mm and 42mm:

Seal, 316L, Ceramic

Diameter 29mm:

Seal, PPS, Polyolefin, Ceramic

Extension cable: PE, PUR, FEP

Process connection

Suspension clamp

Cable mounting screws

Max. measurement distance200m H₂O(656 ft H₂O)

Communication

4...20 mA

Continuous / Liquids

Certificates / Approvals

ATEX, FM, CSA

Marine approval

GL/ ABS

Drinking water approvals

KTW/ NSF/ ACS

Options

Integrated temperature sensor Pt100, 4-wire
customer specific adjustment
customer specific cable marking

Successor

FMX21 with analog output

Application limits

Measuring cell: ceramics

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