

Technical Information

Waterpilot FMX167

Hydrostatic level measurement

Compact device for level measurement in fresh water, wastewater and saltwater



Reliable and robust level probe with ceramic measuring cell

Application

The Waterpilot FMX167 is a pressure sensor for hydrostatic level measurement. Three versions of FMX167 are available at Endress+Hauser:

- FMX167 with a stainless steel housing, outer diameter of 22 mm (0.87 in): Standard version suitable for drinking water applications and for use in bore holes and wells with small diameters
- FMX167 with a stainless steel housing, outer diameter of 42 mm (1.65 in): Heavy duty version, easy clean flush-mounted process diaphragm. Ideally suited to wastewater and sewage treatment plants
- FMX167 with plastic insulation, outer diameter of 29 mm (1.14 in): Corrosion resistant version generally for use in saltwater, particularly for ship ballast water tanks.

Your benefits

- High mechanical resistance to overload and aggressive media
- High-precision, robust ceramic measuring cell with long-term stability
- Climate proofed sensor thanks to completely potted electronics and 2-filter pressure compensation system
- 4 to 20 mA output signal with integrated overvoltage protection
- Simultaneous measurement of level and temperature with optionally integrated Pt100 temperature sensor
- Usage in drinking water: KTW, NSF, ACS
- Approvals: ATEX, FM and CSA
- Marine certificate: GL, ABS
- Extensive range of accessories provides complete measuring point solutions

Ordering information

FMX167

You can enter the versions for the specific feature in the following table. The versions entered make up the complete order code. Options which are mutually exclusive are not marked.

10	Approval				
	A	Non-hazardous area			
	B	ATEX II 2 G Ex ia IIC T6			
	C	ATEX II 3 G Ex nA II T6			
	D	FM IS, Class I, Division 1, Groups A - D			
	E	CSA IS, Class I, Division 1, Groups A - D			
	F	CSA General Purpose			
20	Connection				
	1	Probe cable			
	2	Mounting clamp, AISI 316L			
	3	Cable mounting screw G 1½", AISI 304			
	4	Cable mounting screw NPT 1½", AISI 304			
30	Probe tube:				
	A	Outer diameter d = 22 mm, AISI 316L			
	B	Outer diameter d = 42 mm, flush-mounted, AISI 316L			
	C	Outer diameter d = 29 mm, AISI 316L with heat-shrink sleeve PPS/polyolefin for saltwater applications			
	D	Outer diameter d = 22 mm, AISI 316L + potable water approval KTW/NSF/ACS (can only be selected in conjunction with EPDM seal and PE probe cable)			
40	Measuring range:				
		Measuring range		Measuring range	
		BA	0 to 0.1 bar	MA	0 to 1 mH ₂ O
		BB	0 to 0.2 bar	MB	0 to 2 mH ₂ O
		BC	0 to 0.4 bar	MC	0 to 4 mH ₂ O
		BD	0 to 0.6 bar	MD	0 to 6 mH ₂ O
		BE	0 to 1.0 bar	ME	0 to 10 mH ₂ O
		BF	0 to 2.0 bar	MF	0 to 20 mH ₂ O
		BG	0 to 4.0 bar	MG	0 to 40 mH ₂ O
		BH	0 to 10.0 bar	MH	0 to 100 mH ₂ O
		BK	0 to 20.0 bar	MK	0 to 200 mH ₂ O
		PA	0 to 1.5 psi	FA	0 to 3 ftH ₂ O
		PB	0 to 3 psi	FB	0 to 6 ftH ₂ O
		PC	0 to 6 psi	FC	0 to 15 ftH ₂ O
		PD	0 to 10 psi	FD	0 to 20 ftH ₂ O
		PE	0 to 15 psi	FE	0 to 30 ftH ₂ O
		PF	0 to 30 psi	FF	0 to 60 ftH ₂ O
		PG	0 to 60 psi	FG	0 to 150 ftH ₂ O
		PH	0 to 150 psi	FH	0 to 300 ftH ₂ O
		PK	0 to 300 psi	FK	0 to 600 ftH ₂ O
		VV	Adjusted to customer specifications from 0 to ____ (upper range value) in ____ (unit), upper range value: 0.1 bar (1 mH ₂ O, 1.5 psi, 3 ftH ₂ O) to 20 bar (200 m ₂ HO, 300 psi, 600 ft ₂ HO)		
50	Sensor seal:				
	1	FKM Viton			
	2	EPDM			
60	Probe cable:				
	A	... m, shortable, PE			
	B	10 m, shortable, PE			
	C	20 m, shortable, PE			
	E	30 ft, shortable, PE			
	F	60 ft, shortable, PE			
	G	... ft, shortable, PE			
	I	... m, shortable, FEP			
	K	10 m, shortable, FEP			
	L	20 m, shortable, FEP			
	M	30 ft, shortable, FEP			
	N	60 ft, shortable, FEP			
	P	... ft, shortable, FEP			
FMX167				Order code	
→ Ordering information for continued on next page					