

Model Specification: FB1200 Flow Computers

Model & Seg	Description	Approval	Selection
Flow Computer			
00	FB1200 Flow Computer		FB1200
Hazardous Area Approvals			
10	Class 1 Div1 cUL _{US}		A1
	IEC Ex d Flameproof		A2
	ATEX Ex d Flameproof		A3
	Class 1 Div2 cUL _{US}		A4
	IEC Ex N		A5
	ATEX Ex N		A6
Metrology Approvals			
20	Not required		B0
Housing Options			
30	Coated aluminum, ¾" NPT conduit	A1, A2, A3, A4, A5, A6	C1
	Coated aluminum, 20mm conduit	A1, A2, A3, A4, A5, A6	C2
Power Options			
40	DC supply with internal 6V 2.9 Ah lead acid re-chargeable back-up battery and solar regulator (solar panel supply by others)	A1, A4	D1
	DC supply (no internal battery)	A1, A2, A3, A4, A5, A6	D2
	Remote-mount 6W solar panel, 10 feet cable, internal solar regulator, and internal battery (C1D2) Note: The 6W solar panel has C1D2 approval only, so if option D4 is ordered with C1D1 approval, the solar panel must still be installed in a C1D2 area.	A1, A4	D4
	Integral mount solar panel and internal battery (C1 D2) Note: Available only with Hazardous Approval option A4.	A4	D5
Local Operator Interface Display			
50	Not required	A1, A2, A3, A4, A5, A6	E0
	Display included	A1, A2, A3, A4, A5, A6	E1
Measurement Type/Pressure Sensor			
60	Not Required; external transmitters being used	A1, A2, A3, A4, A5, A6	F0
	Integral Multivariable; DP & Static P	A1, A2, A3, A4, A5, A6	F1
	Integral Static Pressure Only; Inline (no DP)	A1, A2, A3, A4, A5, A6	F2
Multivariable Sensor (includes Differential P, Static P, and Material/Flange Selections)			
Differential Pressure Range & Accuracy			
71	25 Inches H ₂ O (62.3 mbar) DP, 0.1% Accuracy Notes: 25" DP option is only available with static pressure options G4 or A4 and the maximum pressure is limited to 2000 psi. - Available only with stainless steel sensor and coplanar flange.	A1, A2, A3, A4, A5, A6	B221
	250 Inches H ₂ O (623 mbar) DP, 0.1% Accuracy Note: 0.1% Accuracy is not available on traditional flange.	A1, A2, A3, A4, A5, A6	B222
	250 Inches H ₂ O (623 mbar) DP, 0.075% Accuracy	A1, A2, A3, A4, A5, A6	B122
	1000 Inches H ₂ O (2.5 bar) DP, 0.1% Accuracy Notes: 1000" DP range with 0.1% accuracy only available with stainless steel sensor and coplanar flange. 1000" DP range is not available with 300 psi static pressure.	A1, A2, A3, A4, A5, A6	B223
	1000 Inches H ₂ O (2.5 bar) DP, 0.075% Accuracy Note: 1000" DP range is not available with 300 psi static pressure.	A1, A2, A3, A4, A5, A6	B123
	No Differential Pressure required, static pressure only accuracy 0.1% Note: Available only with inline sensor option (2K11).	A1, A2, A3, A4, A5, A6	B2
	No Differential Pressure required, static pressure only accuracy 0.075%	A1, A2, A3, A4, A5, A6	B1

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	Note: Available only with inline sensor option (2K11).		
	No Differential Pressure required, no static pressure Note: Available only with F0.	A1, A2, A3, A4, A5, A6	NN
Static Pressure Range (for use with multivariable sensor B22n or B12n above)			
72	MV 300 psi gauge (20.7 barg) Note: 1000" DP range is not available with 300 psi static pressure.	A1, A2, A3, A4, A5, A6	G6
	MV 300 psi absolute (20.7 bara) Note: 1000" DP range is not available with 300 psi static pressure.	A1, A2, A3, A4, A5, A6	A6
	MV 1500 psi gauge (103.4 barg)	A1, A2, A3, A4, A5, A6	G7
	MV 1500 psi absolute (103.4 bara)	A1, A2, A3, A4, A5, A6	A7
	MV 3600 psi gauge (250 barg) Note: When used with 25" DP option, maximum working pressure is 2000 psi/137.9 barg	A1, A2, A3, A4, A5, A6	G4
	MV 3600 psi absolute (250 bara) Note: When used with 25" DP option, maximum working pressure is 2000 psi/137.9 bar	A1, A2, A3, A4, A5, A6	A4
Static Pressure Range (for use with Static P sensor only, B1 or B2 above)			
72	SP 150 psi gauge (10.34 barg)	A1, A2, A3, A4, A5, A6	G2
	SP 150 psi absolute (10.34 bara)	A1, A2, A3, A4, A5, A6	A2
	SP 800 psi gauge (55.15 barg)	A1, A2, A3, A4, A5, A6	G3
	SP 800 psi absolute (55.15 bara)	A1, A2, A3, A4, A5, A6	A3
	SP 4000 psi gauge (275.79 barg)	A1, A2, A3, A4, A5, A6	G4
	SP 4000 psi absolute (275.79 bara)	A1, A2, A3, A4, A5, A6	A4
	No differential pressure or static pressure sensor required Note: Available only with F0	A1, A2, A3, A4, A5, A6	NN
Sensor Material and Flange Type			
73	Stainless steel sensor and coplanar flange	A1, A2, A3, A4, A5, A6	2E12
	Hastelloy [®] diaphragm and Hastelloy coplanar flange Note: Not available with a 1000" 0.1% accuracy sensor or a 25" sensor	A1, A2, A3, A4, A5, A6	3E13
	Stainless steel sensor and traditional flange Note: 0.1% Accuracy is not available on traditional flange.	A1, A2, A3, A4, A5, A6	2F12
	Stainless steel inline connection 1/2" 14 NPT female-for use with option B1 or B2 above	A1, A2, A3, A4, A5, A6	2K11
	No differential pressure or static pressure sensor required Note: Available only with F0	A1, A2, A3, A4, A5, A6	NN
Sensor Material Certificates			
74	Not required	A1, A2, A3, A4, A5, A6	Q0
	3.1 B Traceability certs to EN 10205	A1, A2, A3, A4, A5, A6	Q8
	NACE MRO 175/ISO 15156; requires Hastelloy option 3E13	A1, A2, A3, A4, A5, A6	Q15
	NACE MRO 103; requires Hastelloy option 3E13	A1, A2, A3, A4, A5, A6	Q25
Base Inputs & Outputs			
80	PRT/RTD input (2-, 3-, or 4-wire) and 2 AI/AO & 2 DI/DO/PI	A1, A2, A3, A4, A5, A6	G2
Additional I/O			
90	Not required	A1, A2, A3, A4, A5, A6	H0
	Addition of 6-channel I/O (2 AI/AO, 4 DI/DO/PI)	A1, A2, A3, A4, A5, A6	H1
Mobile SCADA™ (Wi-Fi®)			
100	Not required	A1, A2, A3, A4, A5, A6	J0
	Mobile SCADA via Wi-Fi with internal antenna (mounted inside enclosure)	A1, A2, A3, A4, A5, A6	J1
	Mobile SCADA via Wi-Fi with local antenna mounted on conduit entry (C1 D2, IEC Ex N, & ATEX Ex N)	A4, A5, A6	J2
Reserved			
110	Not required		K0

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Reserved			
120	Not required		L0
Sensor Calibration Certificates			
130	Not required	A1, A2, A3, A4, A5, A6	M0
	Pressure/MVS (DP &/or Static P) Sensor & PRT/RTD input calibration certificate	A1, A2, A3, A4, A5, A6	M1
	Pressure/MVS (DP &/or Static P) Sensor & PRT/RTD input Analog I/O calibration certificate	A1, A2, A3, A4, A5, A6	M2
	Analog I/O & PRT/RTD input calibration certificate Note: Available only with option F0	A1, A2, A3, A4, A5, A6	M3
Reserved			
140	Not required		N0
Reserved			
150	Not required		P0
Mounting Bracket			
160	Not required		R0
	2" Pipe & panel mounting bracket & bolts (stainless steel) for Coplanar flange, options 2E12 & 3E13, or for use with No Sensor option F0	A1, A2, A3, A4, A5, A6	R1
	2" Pipe mounting bracket & bolts (stainless steel) for traditional flange, for use with option 2F12	A1, A2, A3, A4, A5, A6	R2
	2" Pipe mounting bracket & bolts (carbon steel) for traditional flange, for use with option 2F12	A1, A2, A3, A4, A5, A6	R3
	2" Pipe mounting bracket & bolts (stainless steel) for inline Static Pressure Option 2K11	A1, A2, A3, A4, A5, A6	R4
Meter Runs (Streams)			
170	Single Stream	A1, A2, A3, A4, A5, A6	S1
	Dual Stream	A1, A2, A3, A4, A5, A6	S2
Fluid Types & Calculations			
180	Natural Gas	A1, A2, A3, A4, A5, A6	T1
Control, Additional Programming, & Customization			
190	Not required	A1, A2, A3, A4, A5, A6	U0
	PID Control and Simple Logic Blocks	A1, A2, A3, A4, A5, A6	U1
Reserved			
200	Not required		V0
Ethernet Port			
210	Not enabled	A1, A2, A3, A4, A5, A6	W0
	Enabled	A1, A2, A3, A4, A5, A6	W1

Sensor Summary for FB1000 and FB2000 Series Flow Computers

The following table identifies the available possible sensor combinations for the FB1000 and FB2000 Series Flow Computers.

DP Range	Accuracy	SP Range	Coplanar Flange Stainless Steel		Coplanar Flange Hastelloy		Traditional Flange Stainless Steel	
			Gauge	Absolute	Gauge	Absolute	Gauge	Absolute
25"	0.1%	2000 psi	Available ¹	Available ¹	N/A	N/A	N/A	N/A
250"	0.1%	300 psi	Available	Available	Available	Available	N/A	N/A
		1500 psi	Available	Available	Available	Available	N/A	N/A
		3626 psi	Available	Available	Available	Available	N/A	N/A
250"	0.075%	300 psi	Available	Available	Available	Available	Available	Available
		1500 psi	Available	Available	Available	Available	Available	Available
		3626 psi	Available	Available	Available	Available	Available	Available
1000"	0.1%	1500 psi	Available	Available	N/A	N/A	N/A	N/A
		3626 psi	Available	Available	N/A	N/A	N/A	N/A
1000"	0.075%	1500 psi	Available	Available	Available	Available	Available	Available
		3626 psi	Available	Available	Available	Available	Available	Available

Range	Accuracy	Coplanar Flange Inline Stainless Steel	
		Gauge	Absolute
150 psi	0.1%	Available	Available
800 psi	0.1%	Available	Available
4000 psi	0.1%	Available	Available
150 psi	0.075%	Available	Available
800 psi	0.075%	Available	Available
4000 psi	0.075%	Available	Available

Notes

1. Static pressure of 25" sensor is 2000 psi maximum.

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