

Model Specification: FB1100 Flow Computers

Model & Seg	Description	Approval	Selection
Flow Computer			
00	FB1100 Flow Computer		FB1100
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
	Standalone lithium battery only, "unplugged"	A1, A4	D3
	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 Sensors			
60	Integral Multivariable; DP & Static P	A1, A2, A3, A4, A5, A6	F1
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: <ul style="list-style-type: none"> ▪ 25" DP option B221 is available only with static pressure options G4 or A4 and the maximum pressure is limited to 2000 psi. ▪ Only available 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: <ul style="list-style-type: none"> ▪ 1000" DP range with 0.1% accuracy available only 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
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

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	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 bar	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
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
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 Single Digital Output	A1, A2, A3, A4, A5, A6	G1
Reserved			
90	Not required		H0
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
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
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	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
Meter Runs (Streams)			
170	Single Stream	A1, A2, A3, A4, A5, A6	S1
Fluid Types & Calculations			
180	Natural Gas	A1, A2, A3, A4, A5, A6	T1

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Reserved			
190	Not required		U0
Reserved			
200	Not required		V0
Reserved			
210	Not enabled		W0



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	Accuracy	SP	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

Notes

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

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