

# Left Side Expansion Module Specifications

## AIO Boards



Specification	Model	FBs-B2DA	FBs-B4AD	FBs-B2A1D
Input point		—	4 points	2 points
Output point		2 points	—	1 point
Input / Output value		0~16380 (14-bit representation, valid 12-bit)		
Input / Output polar		Unipolar		
Input / Output counting range		0~10V		
Conversion time		Conversion once for each scan		
Accuracy		±1%		
Isolation method		Non-isolation		
Wiring mechanism		3.81 mm European terminal block		
Installation position		The expansion slot of main unit		

## 3-Axis Motion Control Module



Specification	Model	FBs-30GM
Number of DIO points		14 points (8 inputs/6 outputs)
Program capacity		16M Bytes
Data Register		20K Words
High speed pulse Input		200KHz X,Y,Z 3-Axis A/B differential signal input
High speed pulse Output		500KHz X,Y,Z 3-Axis A/B differential signal output
Manual input		A/B differential signal input
Communication port		RS485 x1, Ethernet x1
Built-in power supply		SPW24-AC/D12/D24
Wiring mechanism		7.62mm detachable terminal block
Dimension		Figure 1

## Precision Load Cell Module



Specification	Model	FBs-1HLC
Number of channels		1 channel
Resolution		0.10 μV/1D (24-bit AD)
Filters		Digital filter, sampling rate 6.25~120Hz
Measurement range		-1~39mV
Sensor voltage		5VDC±5%
No. of sensor connections		350Ω sensor x 8
Isolation Method		Transformer (power) and optical (signal) isolation, 500VAC, 1 minute
Power consumption		24VDC, -15%/+20%, 2W
Wiring mechanism		7.62mm fixed terminal block
Dimension		Figure 4

## Handheld Programming Panel



Specification	Model	FP-08
Main function		Program editor (Mnemonic language), status monitoring, parameters setup, program/parameter import and recording, etc.
Max. of power consumption		5V/100mA
Keyboard		48 silicon rubber keys
Display		Two rows 16 characters, dot matrix LCD display, with LED backlight
Recording device		FBs-PACK read/write
Communication port		RS232 serial communication port
Connectors		DB9F, Mini-DIN
Dimension		Figure 7

## Simple HMI



Specification	Model	FBs-DAP-B/BR	FBs-DAP-C/CR	FBs-PEP/PEPR	FBs-BDAP	FBs-BPEP
Display		Two rows 16-character, dot matrix LCD display, with LED backlighting		128x96 points white light OLED	128segments fixed-pattern LCD	128x64 points white light OLED
Key pads		20 buttons (4x5) membrane		8 operation keys (rubber)	6 operation keys (rubber)	6 operation keys (rubber)
Maximum of consumption power		24V, 48mA	5V, 120mA	5V, 100mA	5V, 100mA	5V, 100mA
Communication Interface	Electric	RS485	RS232	RS232	Port1, CMOS	Port1, CMOS
	Mechanism	5 pins European detachable terminal block		Mini-DIN	—	—
	Number of linked station	Max. 16 stations	Single unit	Single unit	—	—
General features		Timer, counter, register, relay, access of contact in PLC				
Special features		Alarm, information display, and user definable special hot keys		Station number setup, run/stop, Control Calendar* display and setup		
Card access features (RFID card)		Available only in -R models, with maximum distance of 6~12cm			—	—
Dimension (Installation position)		Figure 8		Figure 9	Expansion slot of main unit	