

FBs Model List

| Module Name | | Specifications | | |
|----------------------------------|------------------------------|---|--|---|
| Main Units | Basic Main Units | FBs-10MA◇△-◎-C | 6 points 24VDC digital input (2 points high speed 100KHz, 2 points medium speed 20KHz, 2 points medium speed total 5KHz); 4 points relay or transistor output (2 points high speed 100KHz, 2 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3); I/O is not expandable | |
| | | FBs-14MA◇△-◎-C | 8 points 24VDC digital input (2 points high speed 100KHz, 2 points medium speed 20KHz, 4 points medium speed total 5KHz); 6 points relay or transistor output (2 point high speed 100KHz, 4 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3); I/O is not expandable | |
| | | FBs-20MA◇△-◎-C | 12 points 24VDC digital input (2 points high speed 100KHz, 2 points medium speed 20KHz, 6 points medium speed total 5KHz); 8 points relay or transistor output (2 points high speed 100KHz, 6 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3) | |
| | | FBs-24MA◇△-◎-C | 14 points 24VDC digital input (2 points high speed 100KHz, 6 points medium speed 20KHz, 6 points medium speed total 5KHz); 10 points relay or transistor output (2 points high speed 100KHz, 6 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3) | |
| | | FBs-32MA◇△-◎-C | 20 points 24VDC digital input (2 points high speed 100KHz, 6 points medium speed 20KHz, 8 points medium speed total 5KHz); 12 points relay or transistor output (2 points high speed 100KHz, 6 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3); (MB is detachable terminal block) | |
| | | FBs-32MB◇△-◎-C | | |
| | | FBs-40MA◇△-◎-C | 24 points 24VDC digital input (2 points high speed 100KHz, 6 points medium speed 20KHz, 8 points medium speed total 5KHz); 16 points relay or transistor output (2 points high speed 100KHz, 6 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3); (MB is detachable terminal block) | |
| | | FBs-40MB◇△-◎-C | | |
| | FBs-60MA◇△-◎-C | 36 points 24VDC digital input (2 points high speed 100KHz, 6 points medium speed 20KHz, 8 points medium speed total 5KHz); 24 points relay or transistor output (2 points high speed 100KHz, 6 points medium speed 20KHz); 1 RS232 or USB port(expandable up to 3); (MB is detachable terminal block) | | |
| | FBs-60MB◇△-◎-C | | | |
| | Advanced Main Units | FBs-10MC◇△-◎ | 6 points 24VDC digital input (2 points high speed 200KHz, 2 points medium speed 20KHz, 2 points medium speed total 5KHz); 4 points relay or transistor output (2 points high speed 200KHz, 2 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; I/O is not expandable | |
| | | FBs-14MC◇△-◎ | 8 points 24VDC digital input (2 points high speed 200KHz, 2 points medium speed 20KHz, 4 points medium speed total 5KHz); 6 points relay or transistor output (2 points high speed 200KHz, 4 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; I/O is not expandable | |
| | | FBs-20MC◇△-◎ | 12 points 24VDC digital input (4 points high speed 200KHz, 2 points medium speed 20KHz, 6 points medium speed total 5KHz); 8 points relay or transistor output (4 points high speed 200KHz, 4 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-24MC◇△-◎ | 14 points 24VDC digital input (4 points high speed 200KHz, 4 points medium speed 20KHz, 6 points medium speed total 5KHz); 10 points relay or transistor output (4 points high speed 200KHz, 4 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-32MC◇△-◎ | 20 points 24VDC digital input (6 points high speed 200KHz, 2 points medium speed 20KHz, 8 points medium speed total 5KHz); 12 points relay or transistor output (6 points high speed 200KHz, 2 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-40MC◇△-◎ | 24 points 24VDC digital input (6 points high speed 200KHz, 2 points medium speed 20KHz, 8 points medium speed total 5KHz); 16 points relay or transistor output (6 points high speed 200KHz, 2 points medium speed 20KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-60MC◇△-◎ | 36 points 24VDC digital input (8 points high speed 200KHz, 8 points medium speed total 5KHz); 24 points relay or transistor output (8 points high speed 200KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | NC Positioning Main Units | FBs-20MN◇△-◎ | 2 sets (1 axis) 920KHz 5VDC digital differential input, 10 points 24VDC digital input (4 points high speed 200KHz, 6 points medium speed total 5KHz); 2 sets (1 axis) 920KHz 5VDC digital differential output, 6 points relay or transistor output (average high speed 200KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-32MN◇△-◎ | 4 sets (2 axes) 920KHz 5VDC digital differential input, 16 points 24VDC digital input (4 points high speed 200KHz, 8 points medium speed total 5KHz); 4 sets (2 axes) 920KHz 5VDC digital differential output, 8 points relay or transistor output (4 points high speed 200KHz); 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | | FBs-44MN◇△-◎ | 8 sets (4 axes) 920KHz 5VDC digital differential input, 20 points 24VDC digital input (8 points medium speed total 5KHz); 8 sets (4 axes) 920KHz 5VDC digital differential output, 8 points relay or low speed transistor output; 1 RS232 or USB port (expandable up to 5); built-in RTC; detachable terminal block | |
| | Right Side Expansion Modules | Expansion Power Supply | FBs-EPW-AC/D24 | Power supply of 100~240VAC or 24VDC input for expansion module; 3 sets output power with 5VDC, 24VDC, and 24VDC, 14W capacity |
| | | DIO Expansion Units | FBs-24XY◇-◎ | 14 points 24VDC digital input, 10 points relay or transistor output, built-in power supply |
| | | | FBs-40XY◇-◎ | 24 points 24VDC digital input, 16 points relay or transistor output, built-in power supply |
| | | | FBs-60XY◇-◎ | 36 points 24VDC digital input, 24 points relay or transistor output, built-in power supply |
| | | DIO Expansion Modules | FBs-8X | 8 points 24 VDC digital input |
| | | | FBs-8Y◇ | 8 points relay or transistor output |
| | | | FBs-8XY◇ | 4 points 24VDC digital input, 4 points relay or transistor output |
| | | | FBs-16Y◇ | 16 points relay or transistor output |
| FBs-16XY◇ | | | 8 points 24VDC digital input, 8 points relay or transistor output | |
| FBs-20X | | | 20 points 24VDC digital input | |
| FBs-24XY◇ | | | 14 points 24VDC digital input, 10 points relay or transistor output | |
| FBs-40XY◇ | | | 24 points 24VDC digital input, 16 points relay or transistor output | |
| FBs-60XY◇ | | | 36 points 24VDD digital input, 24 points relay or transistor output | |
| FBs-24X | | | 24 points high-density 24VDC digital input, 30 pins header with latch | |
| FBs-24YT/J | | 24 points high-density transistor SINK(T) or SOURCE(J) output (0.1A max.) · 30 pins header with latch | | |
| Thumbwheel switch module | | FBs-32DGI | 8 sets 4 digits (total 32 digits) thumbwheel switch (or 128 points independent switch) multiplex input module, 30 pins header connector | |
| 16/7 Segment LED display modules | | FBs-7SG1 | 1 set 8 digits 7-segment/4 digits 16-segment LED display (or 64 points independent LED) output display module, 16 pins header connector | |
| | FBs-7SG2 | 2 sets 8 digits 7-segment/4 digits 16-segment LED display (or 128 points independent LED) output display module, 16 pins header connector | | |

| Module Name | | Specifications | |
|------------------------------|--|--|--|
| Left Side Expansion Modules | AIO modules | FBs-2DA | 2 channels, 14-bit analog output module (-10~10V, 0~10V or -20~20mA, 0~20mA) |
| | | FBs-4DA | 4 channels, 14-bit analog output module (-10~10V, 0~10V or -20~20mA, 0~20mA) |
| | | FBs-4A2D | 4 channels, 14-bit analog input (same specification as 6AD)+2 channels, 14-bit analog output (same specification as 2DA) combo module |
| | | FBs-6AD | 6 channels, 14-bit analog input module (-10~10V, 0~10V or -20~20mA, 0~20mA) |
| | Temperature measurement modules | FBs-2TC | 2 channels, thermocouple temperature input module with 0.1°C resolution. |
| | | FBs-6TC | 6 channels, thermocouple temperature input module with 0.1°C resolution. |
| | | FBs-16TC | 16 channels, thermocouple temperature input module with 0.1°C resolution. |
| | | FBs-6RTD | 6 channels, RTD temperature input module with 0.1°C resolution. |
| | | FBs-16RTD | 16 channels, RTD temperature input module with 0.1°C resolution. |
| | AI + Temperature Measurement combo modules | FBs-2A4TC | 2 channels, 14-bit analog input (same specifications as 6AD)+ 4 channels thermocouple temperature input (same specifications as 6TC) combo module |
| | | FBs-2A4RTD | 2 channels, 14-bit analog input (same specifications as 6AD) + 4 channels RTD temperature input (same specifications as 6RTD) combo module |
| | Voice modules | FBs-VOM | Built-in 1MB memory (play continuously up to 2 minutes), extendable 4GB SD card(play continuously up to 8,000 minutes) voice module, 245 messages, output 2W |
| | Load Cell Module | FBs-1LC | 1 channel, load cell measurement module with 16-bit resolution (including sign bit) |
| | | FBs-2LC | 2 channels, load cell measurement module with 16-bit resolution (including sign bit) |
| | Potential Meter Module | FBs-4PT | 4 channels, 14-bit potential meter input module (Impedance range: 1~10K Ω) |
| Left Side Expansion Modules | Communication modules | FBs-CM22 | 2 ports RS232 (Port3 +Port 4) communication module |
| | | FBs-CM55 | 2 ports RS485 (Port3 +Port 4) communication module |
| | | FBs-CM25 | 1 port RS232 (Port3) + 1 port RS485 (port 4) communication module |
| | | FBs-CM25E | 1 port RS232 (Port3) + 1 port RS485 (port 4) + Ethernet network interface communication module |
| | | FBs-CM55E | 1 port RS485 (Port3) + 1 port RS485 (port 4) + Ethernet network interface communication module |
| | | FBs-CMZB | ZigBee communication module |
| | | FBs-CMZBR | ZigBee communication repeater |
| | | FBs-CMGSM | GSM wireless communication module |
| | | FBs-CM25C | General purpose RS232 to RS485/RS422 communication interface converter with photocouple isolation |
| | | FBs-CM5R | General purpose RS485 repeater with photocouple isolation |
| | FBs-CM5H | General purpose 4 ports RS485 HUB with photocouple isolation, RS485 can be connected as star connection | |
| | Communication boards | FBs-CB2 | 1 port RS232 (Port 2) communication board |
| | | FBs-CB22 | 2 ports RS232 (Port 1+ Port 2) communication board |
| | | FBs-CB5 | 1 port RS485 (Port 2) communication board |
| | | FBs-CB55 | 2 ports RS485 (Port 1+ Port 2) communication board |
| FBs-CB25 | | 1 port RS232 (Port 1) + 1 port RS485 (Port 2) communication board | |
| FBs-CBE | | 1 port 10 Base T Ethernet communication board | |
| FBs-CBEH | | 1 port 100 Base T Ethernet communication board | |
| FBs-CBCAN | | 1 port CANopen communication board | |
| AIO boards | FBs-B2DA | 2 channels, 12-bit analog output board (0~10V or 0~20mA) | |
| | FBs-B2A1D | 2 channels, 12-bit analog input + 1 channel, 12-bit analog output combo analog board (0~10V or 0~20mA) | |
| | FBs-B4AD | 4 channels, 12-bit analog input board (0~10V or 0~20mA) | |
| Precision Load Cell Module | FBs-1HLC | 1 channel, high precision weighing control module with 24-bit resolution | |
| 3-Axis Motion Control Module | FBs-30GM | 3-Axis with linear and circular interpolation advanced motional control module, 3 sets of 200KHz high speed pulse input, 3 sets of 500KHz high speed pulse output, 14 points main unit, 16M Bytes program capacity, 20K Words retentive file register, built-in RS485 and Ethernet, 7.62mm detachable terminal block | |
| Simple HMI | FBs-BDAP | Board type Data Access Panel | |
| | FBs-BPEP | Board type Parameter Entry Panel | |
| | FBs-PEP/PEPR | Multi characters with graphics-based Parameter Entry Panel, built-in RFID Read/Write module with PEPR | |
| | FBs-DAP-B/BR | 16 X 2 LCD character display, 20 keys keyboard, 24VDC power supply, RS485 communication interface, built-in RFID Read/Write module with BR | |
| | FBs-DAP-C/CR | 16 X 2 LCD character display, 20 keys keyboard, 5VDC power supply, RS232 communication interface, built-in RFID Read/Write module with CR | |
| Peripheral and Accessory | RFID Card | CARD-H | Read / Write wireless card (for FBs-DAP-BR/CR and FBs-PEPR) |
| | Programming Devices | FP-08 | FBs- Series PLC handheld programmer |
| | | Winproladder | FATEK-PLC Winproladder Programming software |
| | Memory Pack | FBs-PACK | FBs-PLC program memory pack with 20K Words program, 20K Words register, write protection switch |
| | PWMDA module | PWMDA | 10-bit single channel pulse width modulation(PWM) 0~10V analog output (AO) module |
| | USB- RS232 Converter Cable | FBs-U2C-MD-180 | Communication converter cable with standard USB AM connector to RS232 MD4M connector (used in standard PC USB to FBs main unit Port 0 RS232), length 180cm |
| Communication cables | FBs-232P0-9F-150 | Mini-DIN 4M to DB9F communication cable (FBs main unit Port 0 RS232 connect to standard DB9M), length 150cm | |

| Module Name | | Specifications | |
|-------------|--------------------------|-------------------|---|
| | | FBs-232P0-9M-400 | Mini-DIN 4M to DB9M communication cable (FBs main unit Port 0 RS232 connect to DB9F), length |
| | | FBs-232P0-MD-200 | Mini-DIN 4M to Mini-DIN 4M communication cable (FBs main unit Port 0 RS232 connect to FBs-PEP/PEPR), length 200cm |
| | | FBs-232P0-MDR-200 | Mini-DIN 4M to 90° Mini-DIN 4M communication cable (FBs main unit Port 0 RS232 connect to FBs-PEP/PEPR), length 200cm |
| | High density DIO cable | HD30-22AWG-200 | High density modules(FBs-24X, FBs-24YT/J, FBs-32DGI) connector · 30pin Socket, 22AWG I/O cable, length200cm |
| | 16/7-Segment LED display | DBAN.8-nR | 0.8" 4-digit 16-segment LED display, n means R(Red) 16-segment LED characters display installed, can be 1~4 |
| | | DBAN.2.3-nR | 2.3" 4-digit 16-segment LED display, n means R(Red) 16-segment LED characters display installed, can be 1~4 |
| | | DB.56-nR | 0.56" 8-digit 7-segment display, n means R(Red) 7-segment LED characters display installed, can be 1~8 |
| | | DB.8-nR | 0.8" 8-digit 7-segment display, n means R(Red) 7-segment LED characters display installed, can be 1~8 |
| | | DB2.3-nR | 2.3" 8-digit 7-segment display, n means R(Red) 7-segment LED characters display installed, can be 1~8 |
| | | DB4.0-nR | 4.0" 4-digit 7-segment display, n means R(Red) 7-segment LED characters display installed, can be 1~4 |
| | Training Box | FBs-TBOX | 46cm x 32 cm x 16cm suitcase, containing FBs-24MCT main unit. FBs-CM25E communication module (RS232 + RS485 + Ethernet network), 14 simulated input switches, 10 external relay output, Doctor terminal outlet I/O, peripherals such as stepping motor, encoder, 7-segment display, 10 of 10mm LED indicator, thumbwheel switch, and 16 key keyboard. |

- ◇ : R — Relay output ; T — Transistor SINK(NPN) output ; J — Transistor SOURCE (PNP) output
- o : 2 — built-in RS232 port ; U — built-in USB port (non-standard)
- ◎ : AC — 100~240VAC power supply ; D12 — 12VDC power supply ; D24 — 24VDC power supply
- C : Blank — Standard ; - C —tadd in RTC
- The unmarked frequencies of Digital Input (DI) or Digital Output (DO) are low speed.