## Flat-Pak Modular

Key features of the FA2J flat-pack modular include:

- $6 \mathrm{~ms} / \mathrm{K}$ processing
- Up to 128 inputs, 128 outputs
- DC inputs, relay or transistor outputs
- Low profile for shallow panels
- 8-bit or 12-bit analog input, multiplexer
- Replaceable relays
- Memory: 1K, 4K
- High-speed counter
- Computer link, networking


UL Listed
File No. E102542


Part Numbers: FA2J

| Item |  |  | Description | Part Number |
| :---: | :---: | :---: | :---: | :---: |
| CPU |  | AC | FA2J CPU; power: 100 to 240V AC | PF2J-CPU1E |
|  |  | DC | FA2J CPU; power: 24V DC | PF2J-CPU1DCE |
| Power |  | $\begin{aligned} & \text { AC } \end{aligned}$ | Internal power supply for I/O expansion ( 100 to 240 V AC ) Internal power supply for I/O expansion (24V DC) | $\begin{aligned} & \text { PFJ-PS1 } \\ & \text { PFJ-PS1DC } \end{aligned}$ |
|  |  | External | External power supply for DC inputs, sensors (24V DC/0.5A) | PFJ-PU2 |
| Expansion |  | Base Plate | For installing two I/O modules | PFJ-EB1 |
|  |  | Double-Stack Expansion | Mount CPU or expansion power, plus "piggyback" mounting capacity for two I/O modules (order one PFJ-EB1 separately) | PFJ-DP1 |
|  |  | Mount two I/O modules, plus "piggyback" mounting capacity for two more I/O modules (order two PFJ-EB1s parts separately) | PFJ-DP2 |
| Input | 8-Point DC |  | Transistor (source) | 24V DC NPN transistor inputs | PFJ-N081 |
|  |  | Transistor (sink) | 24V DC PNP transistor inputs | PFJ-N082 |
|  | 8-Point AC | 100V AC | 100 to 120 V AC inputs, standard response 100 to 120 V AC inputs, fast response | PFJ-N083 PFJ-N083A |
|  |  | 200V AC | 200 to 240 V AC inputs, standard response 200 to 240 V AC inputs, fast response | $\begin{aligned} & \text { PFJ-N084 } \\ & \text { PFJ-N084A } \end{aligned}$ |
|  | 16-Point DC | Transistor (source) | 24V DC NPN transistor inputs 5V DC NPN transistor inputs | $\begin{aligned} & \text { PFJ-N161 } \\ & \text { PFJ-N161A } \end{aligned}$ |
|  |  | Transistor (sink) | 24V DC PNP transistor inputs | PFJ-N162 |
| Analog Input | 8-Bit | Voltage | 0 to 10V DC inputs, 8 -bit resolution, fast response 0 to 10V DC inputs, 8-bit resolution, standard response | $\begin{aligned} & \text { PFJ-N012 } \\ & \text { PFJ-N012A } \end{aligned}$ |
|  |  | Current | 4 to 20 mA DC inputs, 8 -bit resolution, fast response 4 to 20 mA DC inputs, 8 -bit resolution, standard response | $\begin{aligned} & \text { PFJ-N013 } \\ & \text { PFJ-N013A } \end{aligned}$ |
|  | 12-Bit | Voltage | 0 to 10V DC analog input, 1 point, 12-bit resolution 1 to 5V DC analog input, 1 point, 12-bit resolution | PFJ-N112A <br> PFJ-N113A |
|  |  | Current | 4 to 20 mA DC analog input, 1 point, 12-bit resolution | PFJ-N114A |
| Multiplexer | $\begin{aligned} & \text { 12-Bit } \\ & \text { Analog Input } \end{aligned}$ | Voltage Current | Analog multiplexer module, 4 points, voltage Analog multiplexer module, 4 points, current | $\begin{aligned} & \text { PFJ-4MPV } \\ & \text { PFJ-4MPI } \end{aligned}$ |
| Output | 8-Point | Relay | 1NO contact, rated load 110V AC, 5A; 220V AC, 2A | PFJ-T081 |
|  |  | Transistor (sink) | Rated load 12 to 48V DC, 1A per point | PFJ-T082 |
|  |  | SSR | Rated load 100 to 240V AC 1A per point | PFJ-T083 |
|  | 16-Point Transistor | Transistor (sink) | Rated load 12 to 28 V DC, 0.5 A per point Rated load 5 to 12 V DC, 20 mA per point | $\begin{aligned} & \text { PFJ-T162 } \\ & \text { PFJ-T162A } \end{aligned}$ |
|  |  | Transistor (source) | Rated load 12 to 28 V DC, 50 mA per point Rated load 12 to 28 V DC, 0.5 A per point | $\begin{aligned} & \text { PFJ-T162B } \\ & \text { PFJ-T162C } \end{aligned}$ |
|  | Analog | Voltage Current | 0 to 10V DC output, 8-bit resolution 4 to 20 mA DC output, 8 -bit resolution | $\begin{aligned} & \text { PFJ-T012 } \\ & \text { PFJ-T013 } \end{aligned}$ |
| Program Loader |  | Loader Extension Cable | Program loader with built-in PROM burner 59" (1.5m) not included with program loader | $\begin{aligned} & \text { PF3S-HL161E } \\ & \text { PFA-1A11 } \end{aligned}$ |
| Memory Packs (see details on page J-49) |  |  | 4K EEPROM (compatible with FA3S) <br> 1K CMOS-RAM (compatible with FA3S) <br> 4K CMOS-RAM (compatible with FA3S) | $\begin{aligned} & \text { PFA-1M14 } \\ & \text { PFA-1M21 } \\ & \text { PFA-1M24 } \end{aligned}$ |
| High Performance Input |  | High-Speed Counter | Single-phase, for high-frequency inputs Two-phase, for quadrature rotary encoder inputs | $\begin{aligned} & \text { PFA-N011A } \\ & \text { PFA-N011B } \end{aligned}$ |
| Blank Module |  |  | Occupies unused slot on base plate | PFJ-DM |
| Computer Interface <br> (all 3 parts required) |  |  | Link adaptor for 1:1 communications to IBM-compatible PC Link cable, FA series CPU to link adapter $12^{\prime \prime}$ ( 300 mm ) Link cable, PC to link adapter, $78.74^{\prime \prime}$ (2m) | $\begin{aligned} & \text { PF2-CLA } \\ & \text { PFA-1A51 } \\ & \text { PFA-1A54A } \end{aligned}$ |
| Software |  |  | Windows-based programming software for all IDEC PLCs (for more information, see page J-51) | WINDLDR |
| User's Manuals |  |  | User's Manual FA2J | EM325-0 |
|  |  |  | 8 Bit Analog I/O Manual | EM049 |
|  |  |  | 12 Bit Analog Input Manual | EM225 |

