

idec Microsmart™ PLCs

Starter kits provide a packaged solution for your control needs

- 10, 16, or 24 I/O all-in-one type CPU modules with sink/source DC input and relay output; 120 V power
- 20 I/O slim type CPU modules with sink/source DC input and relay output with high-speed transistor sink or source output; 24 V power

These flexible, adaptable PLCs are as compact as they are powerful, so you can create the system you need without increasing your space requirements or your budget. Each MicroSmart module is equipped with a standard power supply circuit, four high-speed counters, an RS-232C port, and an analog potentiometer. The Slim type and the 24 I/O CPU module can be expanded with optional modules. The Slim type housing is extremely compact, measuring only 90 mm H x 70 mm D. There are nine expansion modules including four analog I/O modules. Depending upon the CPU, you can create a system with as many as 244 I/O points.

Each MicroSmart module can be enhanced with a memory cartridge for programs or a real-time clock and calendar cartridge, plus an RS-485 communications adapter or an additional RS-232 adapter. These adapters allow the MicroSmart to connect to other PLCs, printers, barcode readers, or other RS-232 devices. Monitor and change the status and setup of your CPU while the system is in operation with the HMI module 65522-20. The MicroSmart can also be linked to as many as 32 other MicroSmart modules, or to a controller or PC.

MicroSmart modules are programmable with WindLDR intuitive ladder logic software. Programs can be stored on the optional memory cartridges and transferred between units. The CPU modules also feature user program read/write protection.

What's included: starter kits 65522-00 and -02 include a CPU, character display, software, and communications cable. Kits 65522-04 and -06 include a CPU, LCD touch screen, 50 W power supply, software, cables, E-stop, and nameplate.

Starter Kits



| Catalog number | Type | CPU | Operator interface | Price |
|----------------|--------------------|-----------------------------|--------------------|-------|
| R-65522-00 | MM-SMART10-252 | Microsmart 10 I/O | 2 line display | |
| R-65522-02 | MM-SMART16-452 | Microsmart 16 I/O | 4 line display | |
| R-65522-04 | MM-SMART-20-HG1B | Microsmart 20 I/O | LCD touchscreen | |
| R-65522-06 | MM-SMART-20-HG2F-C | Microsmart 20 I/O Slim-type | LCD touchscreen | |

Accessories

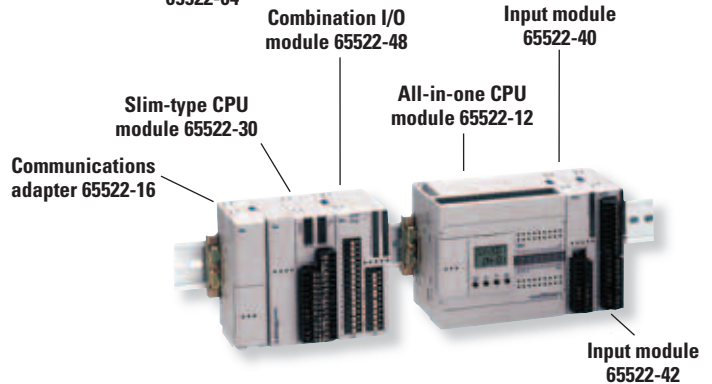
- R-65522-52 WINDLDR® Windows-based PLC programming software
- R-65522-50 Microsmart PC cable, type FC2A-KC4C.....
- R-65522-20 Microsmart HMI module, type FC4A-PH1.....
- R-65522-28 Microsmart clock cartridge, type FC4A-PT1.....
- R-65522-14 RS-485 communications adapter, type FC4A-HPC3.....
- R-65522-16 RS-232 communications adapter, type FC4A-HPC1.....
- R-65522-18 Mounting module for 65522-30 and 65522-20, type FC4A-HPH1.....
- R-65522-22 RS-232 mini DIN communications adapter, type FC4A-PC1.....
- R-65522-24 RS-485 screw terminal communications adapter, type FC4A-PC3.....
- R-65522-26 Microsmart memory cartridge, 32 KB, type FC4A-PM32
- R-65525-00 DIN rail, aluminum, 1-meter long.....



Starter Kit 65522-04

Required System Components

Order complete starter kits at left and add additional modules from below, or order modules separately to create your own system.



CPU Modules

| Catalog number | Type | CPU base I/O Points | Expandable | Max. no. I/O | Price |
|---|-------------|---------------------|------------|--------------|-------|
| All-in-one; 100 to 240 VAC, 50/60 Hz | | | | | |
| R-65522-08 | FC4A-C10R2 | 6 in/4 out | No | 10 | |
| R-65522-10 | FC4A-C16R2 | 9 in/7 out | No | 16 | |
| R-65522-12 | FC4A-C24R2 | 14 in/10 out | Yes | 56 | |
| Slim-type; 24 VDC | | | | | |
| R-65522-30 | FC4A-D20RK1 | 12 in/ 8 out† | Yes | 244 | |

†2 points are transistor outputs, 6 points are relay outputs.

Input Modules

| Catalog number | Type | Input type | I/O points | Price |
|----------------|------------|--------------------|-------------|-------|
| R-65522-40 | FC4A-N08B1 | 24 VDC sink/source | 8 in/0 out | |
| R-65522-42 | FC4A-N16B1 | | 16 in/0 out | |

Output Modules

| Catalog number | Type | Output type | I/O points | Price |
|----------------|-----------|------------------------------|---------------|-------|
| R-65522-44 | FC4A-R081 | Relay out 240 VAC/30 VDC, 2A | 0 in/ 8 out | |
| R-65522-46 | FC4A-R161 | | 0 in / 16 out | |

Analog I/O Modules

| Catalog number | Type | Input type | Output type | Price |
|----------------|-------------|---------------------------------------|-------------------------------------|-------|
| R-65522-32 | FC4A-J2A1 | Analog in 0 to 10 VDC/ 0 to 20mA DC | — | |
| R-65522-34 | FC4A-K1A1 | — | — | |
| R-65522-36 | FC4A-L03A1 | Analog in 0 to 10 VDC/ 0 to 20mA DC | Analog in 0 to 10 VDC/ 0 to 20mA DC | |
| R-65522-38 | FC4A-L03AP1 | Thermocouple, resistance, thermometer | — | |

Combination I/O Modules

| Catalog number | Type | Input type | Output type | I/O points | Price |
|----------------|-------------|--------------------|-------------------------------|------------|-------|
| R-65522-48 | FC4A-M08BR1 | 24 VDC sink source | Relay out 240 VAC/ 30 VDC, 2A | 4 in/4 out | |



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