

Controller with best functions and performance for handling and assembly applications

## Optimum controller for handling and assembly

Supports robots with a payload of 20 kg or less

- Fits in a 19 inch rack and can be installed under conveyors.
- Improved performance and high-speed control obtained by improving resolutions for I/O commands as well as by reducing time for ladder scanning.
- High-speed positioning achieved by suppressing vibration of hands.
- Commands specifically designed for workpiece handling with synchronized conveyors.



### FS100 Controller Specifications

Items	Specifications
Configuration	Open structure (IP20)*
Dimensions	470 (W)×420 (D)×200 (H) mm (Does not include protruding parts.)(Possible to control two external axes)
Mass	20 kg
Cooling System	Direct cooling
Ambient Temperature	During operation: 0°C to +40°C During storage : -10°C to +60°C
Relative Humidity	90% max. (non-condensing)
Power Supply	Three-phase 200/220 VAC (+10% to -15%), 50/60 Hz
Grounding	Grounding resistance: 100 Ω or less
Digital I/Os	Specialized signals: 10 inputs and 1 output General signals : 28 inputs and 28 outputs Max. I/O (optional) : 1024 inputs and 1024 outputs
Positioning System	Serial communications (absolute encoder)
Programming Capacity	JOB: 10,000 steps, 1,000 instructions CIO ladder: 1,500 steps max.
Expansion Slots	MP2000 bus × 5 slots
LAN (Connection to Host)	1 (10BASE-T/100BASE-TX)
Interface	RS-232C: 1ch
Drive Units	For robot axes: One drive unit for AC servo with 4 to 6 axes (depend on the type) For external axes: Two more axes can be added. (Can be installed in the controller.)

\*: The FS100 has an open structure (IP20) and must be used in a clean environment (free from electrically-conductive dirt and dust) that meets the standard of pollution degree 2 specified in IEC60664-1.

### Programming Pendant Specifications Optional

Items	Specifications
Dimensions	169 (W) × 50 (D) × 314.5 (H) mm
Mass	0.990 kg
Material	Reinforced plastics
Operation Device	Select keys, axis keys (8 axes), numerical/application keys, mode switch with key (mode: teach, play, and remote), emergency stop button, enable switch, compact flash card interface device (compact flash is optional.), USB port (1 port)
Display	640×480 pixels color LCD, touch panel (Alphanumeric characters, Chinese characters, Japanese letters, Others)
IEC Protection Class	IP65
Cable Length	Standard: 8 m, max.: 20 m (with optional extension cable)

Note: A programming pendant or a dummy connector is required with the FS100. (Sold separately.)

- Programming pendant (model: JZRRCR-YPP03-1)  
For maintenance, the programming pendant is required. One programming pendant can be used with more than one controller.
- Dummy connector (model: CBL-FRC063-2)  
The dummy connector must be inserted when the programming pendant is not connected or when the software pendant is used.