

## Controllers for FR-Series (Included with Robot Arm)



CR800-D/R



4F-R16RTCPU (optional)

Required for CR800-R Functionality

### Controller Specifications

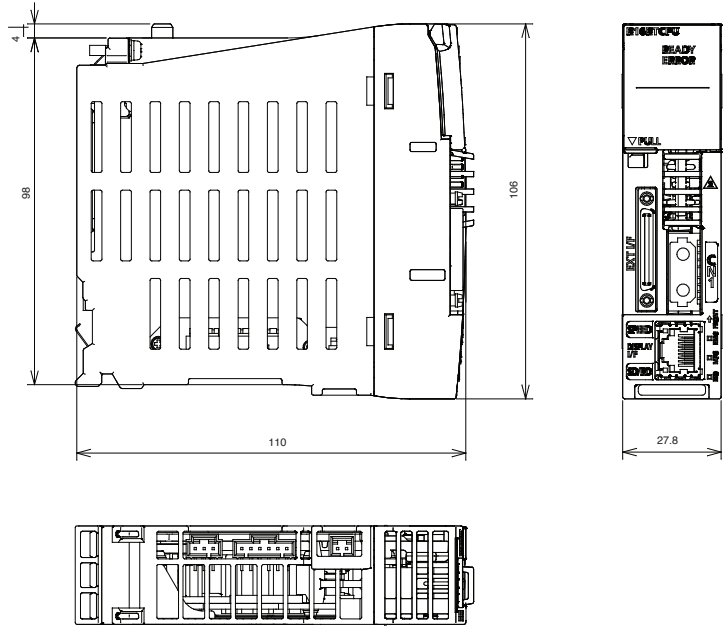
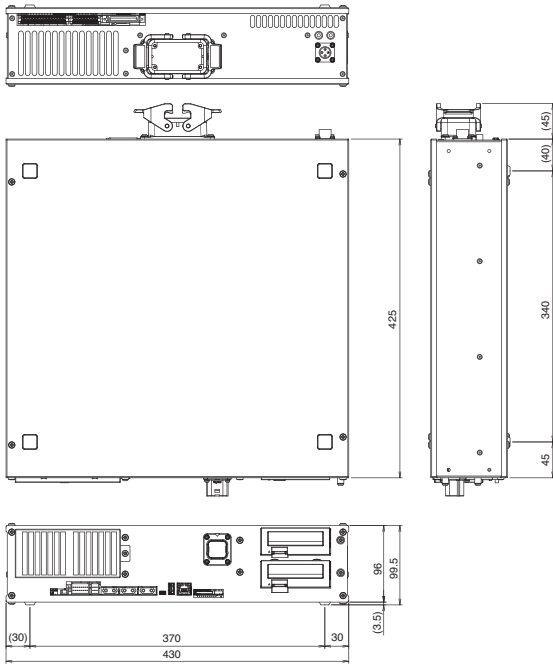
Model Number	CR800-R (With optional 4F-R16RTCPU)	CR800-D
Robot CPU	4F-R16RTCPU	Built-in
Path Control Method	PTP control and CP control	
Number of Axes Controlled	Maximum 6 axes + additional 8 axes available	
Robot Language	MELFA-BASIC V/VI	
Position Teaching Method	Teaching method, MDI method	
Memory Capacity	Number of Teaching Points	39000
	Number of Steps	78000
	Number of Programs (Unit)	512
External Input/Output (Points)	General-Purpose I/O	0 input/0 output (8192 input points/8192 output points with the multiple CPU common device)
	Dedicated I/O	Assigned to multiple CPU common device
	Gripper Open/Close	8 input / 8 output (*6)
	Emergency Stop Input	1 (redundant)
	Door Switch Input	1 (redundant)
	Enabling Device Input (*7)	1 (redundant)
	Emergency Stop Output	1 (redundant)
	Mode Output	1 (redundant)
	Robot Error Output	1 (redundant)
	Sync. of Additional Axes	1 (redundant)
Interface	Encoder Input	1 (dedicated T/B)
	RS-422	2
	Ethernet	1 (dedicated T/B); 1 (for customer) 10BASE-T/100BASE-TX/1000BASE-T
	USB (*5)	1 (USB port of programmable controller CPU unit)
	Additional-Axis Interface	1 (SSCNET III/H)
	Extension Slot (*1)	-
	R/C Communication Interface	2 (daisy chain)
	Remote I/O	1 (Ver.2)
Power Supply	Input Voltage Range (V) (*2)	RV: 2FR/4FR/7FR/13FR/20FR, RH: 1FRHR/3FRH/3FRHR/6FRH/12FRH/20FRH Single-Phase AC 200V to 230V
	Power Capacity kVA (*3)	RV2FR, RH3FRH: 0.5; RH3FRHR, RV4FR, RH6FRH: 1.0; RH1FRHR/RH12FRH/20FRH: 1.5; RV7FR (except RV7FRL): 2.0 RV7RLL, RV13FR/RV20FR: 3.0
External Dimensions (Including Legs) mm (W x D x H)	430 x 425 x 99.5	
Weight (kg)	Approx. 12.5	
Structure (Protective Specification)	Self-contained floor type/open structure (Vertical and horizontal mounting) [IP20]	
Grounding Ω (*4)	100 or less (class D grounding)	

#### Notes:

- For installing option interface.
- The rate of power-supply voltage fluctuation is within 10%.
- The power capacity indicates the rating for normal operation. Note the power capacity does not include in-rush current. The power capacity is only a rough guide and whether or not operation can be guaranteed depends on the input power-supply voltage.
- Electrical grounding is the customer's responsibility.
- Recommended USB cable (USB A-to-USB mini B): MR-J3USBCBL3M (Mitsubishi Electric), GT09-C30USB-5P (Mitsubishi Electric System & Service Co., Ltd.)
- I/O connections on robot arm. RV-2FR Series has 4 inputs and 4 outputs.
- Mode selection switch provided by the customer.

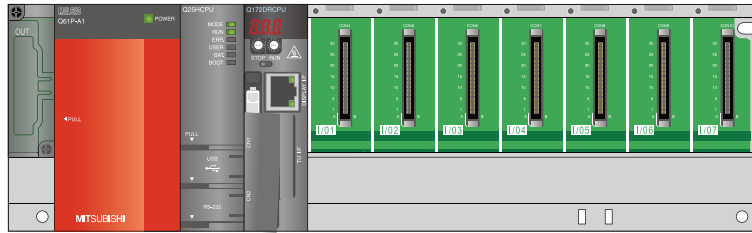
CR800-R  
CR800-D

4F-R16RTCPU



Multiple CPU Environment (\*1)

Unit	Type
Base	R35B - 5 Slot
	R38B - 8 slot
	R312B - 12 slot
Power Supply	R61P
	R62P
	R63P
	R64P
PLC CPU	R04CPU
	R08CPU
	R16CPU
	R32CPU
	R120CPU



Note 1: For details of the PLC units, refer to the PLC manual or the Mitsubishi Electric FA website, etc.  
1. Not included with robot part numbers.