Changes for the Better





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Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO14001 (standards for environmental management systems) and ISO9001(standards for quality assurance management systems)



A New Concept Only Possible by Mitsubishi Electric.

iQ Platform opens up the future of automation, by integrating, optimizing, and innovating the shop floor.



Features

Simply add a robot controller into the MELSEC-iQ Platform



Q bus

revised in 2006.

This added safety will surely help you certify your equipment under the Machinery Directive and other safety standards

Compatibility is ensured

Q-bus communication is used among the sequence CPUs and various I/O units and intelligent units. You can use the MELSEC units you've been using, without changing anything.

An Evolution of the S Series.

Functions

New teaching pendant (optional)

Improved display performance and operability

•Simple teaching pendant [R32TB] Five times greater display performance (vs. R28TB)



- Ergonomic design improves operability.
- IP65 Protection

3 Additional axis function

No need for dedicated control device. Additional axes can be controlled using robot programs.

- •The additional-axis I/F is a standard feature.
- •Controlling the robot's traveling axes and turntable.
- •Up to 8 axes can be controlled in addition to the robot.
- You can add our MELSERVO-J3 (MR-J3B) units as additional axes.

5 New emergency-stop I/O function

Ensuring safety by working in pair. Your equipment will conform to the Machinery Directive.

[Enabling-device input function]

- Allows for connection of 3-position enabling devices to protect the robot system and multiple persons from danger.
- •Since multiple operators must always be coordinated, safety improves.

[Emergency-stop output function]

•Even when the robot controller power is cut off, you can still stop the peripherals by pressing the emergency stop switch on the panel or teaching pendant.

[Robot error output]

•If the robot generates an error, a safety contact signal is output in addition to an applicable I/O signal output on conventional models.

• These I/Os are all provided redundantly.



2 New high-functional teaching pendant (optional)

No need to bring a PC to the site

- •High-functional teaching pendant [R56TB] [VGA (640 x 480] touch panel] adopted
- •You can use HMI tools equivalent to the RT tool box on the teaching pendant.
- •You can connect a USB memory to back up the data saved in the controller.
- IP65 Protection

4 Synchronized outputs from additional axes

Improved safety of the entire system

- •A signal is output from the auxiliary contacts for the main circuit contactor in the robot controller. The auxiliary contacts allow the servo amplifier contactor of each additional axis to synchronize with the robot servo status.
- •This contact signal is output redundantly, which improves the safety of your equipment and makes it easy for the entire equipment to comply with the safety standards.

6 **GOT** connection

No need for GOT connection ladder

•The robot can be controlled directly from the GOT1000. (A dedicated robot screen must be created.)



Classification	Robot name	Туре	Specification overview		
Standard configuration	Robot arm	RV/RH-SQ	For details, refer to the list on the next page.		
	Robot CPU	Q172DRCPU	Dedicated CPU unit for iQ Platform robot		
	Drive unit	CR1Q-7x0/CR2Q-7x0/	"x" indicates the number found in the same position in the controller		
		CR3Q-7x0	model name. For the details of model names, refer to the next page.		
	Connection cable between robot CPU and drive unit	2Q-RC-CBL10M	Standard length: 10m. Cable x 3pcs, SSCNET III cable x 1pc.		
	Machine cable	-	The standard length is 7m only for the RV-12SQ series.		
			With all other series, the standard length is 5m.		
	Simple teaching pendant (7m, 15m)	R32TB(-**)	7m: Standard 15m: Custom ("-15" is indicated in the model name)		
Options	High-function teaching pendant (7m, 15m)	R56TB(-**)	7m: Standard 15m: Custom ("-15" is indicated in the model name)		
(Can be installed	Pneumatic hand interface (sink type) 2A-RZ365 8 outp		8 output points (sink), used exclusively for hand control		
after shipment)	PC support software	3A-11C-WINE	With simulation function (CD-ROM)		
	Abridged version of PC support software	3A-12C-WINE	Simple version (CD-ROM)		

Controller Configurations





List of Models

List of SQ-series Models Supporting *iQ* Platform

Classification	Robot name	Туре	Classification	Robot name	Туре
-	RV-12SQ/RV-12SQC	CR30-701/CR30-701M	Horizontal articulated	RH-6SQHxxxx	CR1Q-761
	RV-12SQL/RV-12SQLC	CK3Q-701/CK3Q-7011VI		RH-6SQHxxxxM/C	
	RV-6SQ/RV-6SQC	0000 711		RH-6SQHxxxxM-SM	CR3Q-761M
	RV-6SQL/RV-6SQLC	- CR2Q-711		RH-12SQHxxxx	CR2Q-741
Vertical	RV-6SQ-SM	CR3Q-711M		RH-12SQHxxxxM/C	
articulated	RV-6SQL-SM	CR3Q-711M		RH-12SQHxxxxM-SM	CR3Q-741M
	RV-3SQ/RV-3SQC	0010 701/701		RH-18SQHxxxx	CR2Q-751
	RV-3SQJ/RV-3SQJC	- CR1Q-721/731		RH-18SQHxxxxM/C	
	RV-3SQ-SM	0020 72114/72114		RH-18SQHxxxxM-SM	CR3Q-751M
	RV-3SQJ-SM	CR3Q-721M/731M			

System Configuration



Note 1) Select an appropriate interface according to the I/Os or network function of the peripheral.



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