iQ-R PLC MOTION Simulator

Model Number: iQ-R PLCMOTION SIM

The iQ-R PLC MOTION simulator incorporates our feature rich iQ-R modular PLC, expanded I/O capability, MR-J4 servo amplifiers, HG Series servo motors, and GT27 HMI to offer training facilities an off-the-shelf solution to meet their advanced teaching requirements.

PURPOSE

The iQ-R PLC MOTION SIM is the most advanced PLC based simulator offered by Mitsubishi Electric. Integrating (2) HG Series servo motors and expanded digital and analog I/O capability provides students the ability to simulate a multitude of applications. Utilizing MELSOFT GX Works3 and GT Works3 software, students will learn to configure and program the PLC, servo drives, and HMI. Once programmed, the simulator can be cycled to validate servo performance and I/O functionality. The iQ-R PLC MOTION Simulator delivers advanced configuration and programming capability in a full featured control platform with fast processing speeds, network and module synchronization and multi-discipline control.

Simulator Features	Simulator Benefits
All critical components integrated into a compact assembly.	Delivers a hands-on experience for instructors and students.
Digital and analog I/O functionality standard.	Allows students the ability to replicate digital or analog sensor inputs and outputs.
Control mode can be switched accordingly for position, speed or torque control.	Various parameters are easily monitored. Pre-determined position(s) can easily be programmed.
Built-in SD memory card database.	Provides recipe and data logging functionality.
Rotational speeds to 6,000 RPM. Built-in high-resolution absolute position encoder.	Enables user to easily replicate a wide variety of applications where speed and position are critical.
GX Works3 Software	Supports multiple programming languages for use in function block diagram, ladder logic, structered text and sequential function chart methods.
GT Works3 Software	This revolutionary and intuitive design environment provides host of attributes and graphical elements needed to quickly and easily develop visualization projects.

Primary Components	Website Link: Additional Information
R35B iQ-R main base unit, 5 slots	iQ-R Series Base Unit
R62P R Series PS, 100–240VAC, 5VDC 3A	iQ-R Series Power Supply
R04CPU iQ-R CPU, 40K steps	iQ-R Series CPU Overview
RX40C7 iQ-R digital16 point input 24VDC	iQ-R Digital I/O Module Overview
RY40NT5P iQ-R digital 16 point transistor (sink) output	
R60AD4 iQ-R 4-channel analog input	iQ-R Analog I/O Module Overview
R60DA4 iQ-R 4-channel analog output	
RD77MS2 2-axis simple motion iQ-R SSCNETIII/H	iQ-R Simple Motion Module Overview
MR-J4-10B1-RJ SRVAMP, 100W, SSCNET III/H, fully closed loop	MR-J4 Servo Amplifier Card Overview
HG-KR13 servo motor 100W 200VAC	HG Series Servo Motor Overview
GT2708-STBA GT27 8.4" SVGA color touchscreen, AC	GT27 Series Overview

The following provides critical dimensions and weight information.

Dimensions (WxHxD) inches: 22.25 x 14 x 9 • Weight (lbs): 26

Learn more about Mitsubishi Electric's Diamondworks! Workforce Development Program at: Diamondworks
View the complete offering of Mitsubishi Electric simulator solutions at: Training Education Resources
Contact us to learn more about Diamondworks! Workforce Development: Diamondworks@meau.com

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