

iQ-R PLC Safety Simulator

Model Number: iQ-R PLC SAFE SIM

The iQ-R PLC Safety Simulator takes advantage of our feature-rich iQ-R Modular PLC, GT27 HMI, and several safety devices to offer students an off the shelf solution to meet their teaching or testing needs.

PURPOSE

Designed for the classroom environment, this unit easily sits on a desktop and is portable. The iQ-R integrated safety solution offers the ability to easily integrate safety functionality in one platform over one network using one software package. Utilizing MELSOFT GX WORKS3 and GT WORKS3 software, students will learn to configure and program the PLC and HMI. The iQ-R PLC SAFE SIM incorporates additional safety features that comply with EN ISO 13849-1 category 4/PL e and IEC 61508 SIL 3 international safety standards. This simulator is ideal for students wanting to gain experience in programming and integrating safety PLC hardware into such applications as factory assembly lines and machining cells.



Simulator Features	Simulator Benefits
All critical components integrated into a compact assembly	Delivers a hands-on experience for instructors and students.
Safety CPU with 40k programming steps dedicated to safety logic	Enables training of critical safety functions for various Industrial Automation applications to EN ISO 13849-1 PL e and IEC 61508 SIL 3 standards.
Supports the addition of various modules for enhanced capabilities of motion control, networking, etc.	Plug and play expansion capability allows the addition of intelligent function & data logging modules along with stepper, servo and VFD components.
GX Works3 Software	Supports multiple programming languages for use in function block diagram, ladder logic, structured 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
iQ-R Series CPU	iQ-R Series CPU Overview
NZ2GFSS2-32D Safety Input Module	iQ-R Series Safety CPU Module Overview
NZ2GFSS2-8TE Safety Output Module	
R6SFM Safety Function Module	
GX Works3 Software	GX Works3 Software Overview
GT Works3 Software	GT Works3 Software Overview

The following provides critical dimensions and weight information.

Dimensions (WxHxD) inches: 22.5 x 14 x 9 • Weight (lbs): 25

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

MITSUBISHI ELECTRIC AUTOMATION, INC.

500 Corporate Woods Parkway, Vernon Hills, IL 60061

Ph 847.478.2100 • Fx 847.478.2253

us.MitsubishiElectric.com/fa/en

February, 2022 • ©2022, Mitsubishi Electric Automation, Inc.

Specifications subject to change without notice. • All rights reserved