Micro VFD Simulator

Model Number: MICRO VFD SIM

The Micro VFD simulator utilizes the standard FR-D700 Series and FR-E800 variable frequency drive, 3-phase AC induction motor with encoder, power supply, built-in communication and GT27 HMI.

PURPOSE

Designed for the classroom environment, this all-in-one unit easily sits on a desktop. Utilizing built-in keypads, FR-Configurator2, GT-Works3 software and HMI, students will learn to configure and program two independent VFDs. The FR-D700 inverter is designed for basic low HP general applications. While the FR-E800 is designed to address applications subject to constant or variable torque. Mitsubishi Electric's Micro VFD simulator allows the student to program and operate either inverter depending on what the application calls for.

Simulator Features	Simulator Benefits
Compact, independent VFDs housed in one unit.	Offers flexibility to simulate a variety of common applications where VFDs are used.
Each inverter can be programmed from the keypad on the unit or HMI.	Allows students the ability to configure and program simply and quickly.
Safety Stop: "STO" capability enables SIL3/PLe emergency stops.	Allows programming of safety function (if required).
Ethernet Communications as standard: Communicate with Ethernet I/P, MODBUS TCP/IP or CC-LinkIE Field Basic Communications networks at a speed of 100Mbps without the need for an extra option card.	Flexible programming and communication over a multitude of protocols widely used in industrial automation.
Built-in 3-Phase AC induction motor.	Allows students to physically see the results of their programming efforts.

Primary Components	Website Link: Additional Information
FR-D700 Series VFD	FR-D700 Series Overview
FR-E800 Series VFD	FR-E800 Series Overview
GT2708 – 8.4" HMI display with USB 2.0, RS-232, RS-422/485, SDHC	GT27 Series HMI
FR-Configurator2 Programming Software	FR-Configurator2 Drive Interface Software
GT-Works3 Software	GT Works3 Software Overview

The following provides critical dimensions and weight information.
Dimensions (WxHxD) inches: 22.25 x 14 x 9 • Weight (lbs): 44

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