

FX3U-24MT 6AD 2DA PLC Programmable Logic Controller 14DI 10DO 6AI 2AO

The FX3U-24MT6AD2DA is a programmable logic controller designed for industrial automation systems requiring digital, analog, and communication control capabilities.

Product Overview

This PLC features 14 digital input channels and 10 transistor output channels, providing flexible connectivity for industrial equipment and control systems. It includes 6 analog input channels and 2 analog output channels for monitoring and controlling continuous signals.

With built-in RS485 Modbus RTU communication and an integrated real-time clock (RTC), the controller supports networked automation and time-based operations. It is compatible with GX Developer and GX Works2 software and supports HMI integration.

Features:

Inputs and Outputs: The FX3U PLC provides 14 digital inputs and 10 transistor outputs, offering extensive connectivity options for your industrial control needs.

Analog Inputs: With 3 channels supporting a voltage range of 0-10V and 3 channels supporting a current range of 0-20mA, the PLC allows for precise analog signal monitoring.

Analog Outputs: The PLC includes 2 analog outputs with a range of 0-10V, enabling accurate control of analog devices.

Programming Capacity: The FX3U PLC offers a generous program capacity of 8,000 steps, providing flexibility for developing complex control logic.

Fast Download Speed: With a download speed of 38,400, programming the PLC is efficient, saving you time and ensuring quick updates to your control system.

Compatibility with Mitsubishi Software: The FX3U PLC seamlessly integrates with popular Mitsubishi software, including GX-Developer and GX-WORK2, making it easy for users familiar with Mitsubishi products to program and interact with the PLC.

HMI Connection: The PLC supports connection with a Human Machine Interface (HMI), allowing for convenient monitoring and control of your industrial processes.

High-Speed Performance: Powered by a 32-bit industrial-grade MCU, the FX3U PLC delivers exceptional speed and reliable operation, outperforming the Mitsubishi FX3U PLC.

Industrial Reliability: The PLC is designed to meet the demands of industrial environments, offering enhanced anti-interference capabilities and ensuring reliable performance in rugged conditions.

RS485 MODBUS RTU: The built-in RS485 MODBUS RTU interface enables communication with other devices using the widely adopted MODBUS protocol.

Real-Time Clock: The PLC features a real-time clock function, allowing for time-based scheduling and control applications.

Experience the efficiency and reliability of the FX3U PLC, as it simplifies your industrial automation tasks while delivering superior performance and seamless compatibility with Mitsubishi software.

Software: GX-Developer/GX Works2

Programming Cable : USB to Serial cable

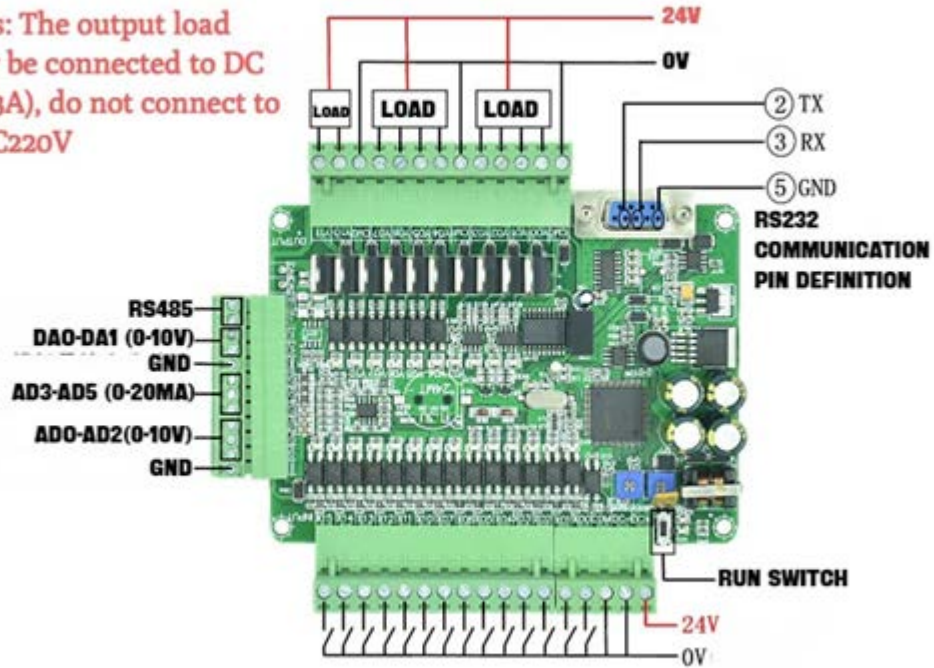
Specifications:

Input Power	DC24
Number of steps	8000 steps; 2 communication ports: 1 RS232 (DB9 serial port communication port for the FX3u protocol 38400,7, E, 1 ; 1 RS485 (485 selection) communication protocol can be set to D8120).
X input element	DC24, X0-X15 input, Low-level X0-5 is a high-speed count input port (Default is 1K)
Y output element	Y0-Y3 transistor output, transistor output Current 500mA, plus the diode can achieve 4A. 100K 4 Channel Pulse output Y4-Y11 Transistor common output can be directly driven 3A 24V load 10K
Analog input	6 analog input, 12 bit precision, A0-AD2: 0-10V, A3-AD5 :0-20MA; read analog RD3A instruction.
Analog output	2 analog output, 12-bit precision, output voltage: 0-10V. output analog voltage with WR3A instruction
Intermediate relay M	M0-M3071, the scope of power loss saving can be set up. Rang M0-M1023
Stepper Point S	S0-1023, power down save range can be set up S0-S1023, Default is S500-S999
100Ms Timer	T0-T199, cumulative power down save T184-T199
10Ms Timer	T200-T249, cumulative power down save T246-T249
1Ms Timer	T250-T383 and T250-255 are the cumulative types
16-bit counter	C0-C199, power down save C100-199

32-bit counter	C200-C219, power down save C220-C234
32-bit high-speed counter	C235-255; C235-240 for the single-phase counter, Nonharmonic; C241-240 single-phase counter, frequency doubling; C247-249 Dual-phase counter, Non harmonic; C250-252 for the two-phase counter, frequency doubling; C253-255 biphasic counter, 4 frequency doubling;
Register D	D0-D7999, power-down save range can be set to D0-7999
Indirect addressing pointer V, Z	V0-7, Z0-7
P subroutine jump number	P0-63
I interrupt	X0-5 external interrupt. Timer interrupt (1MS unit). Timer interrupt.
Special element M	M8000 running normally closed, M8002 power pulse, M8011 is 10Ms pulse, M8012 is 100Ms pulse, M8013 is 1s pulse, M8014 minutes pulse.

**FX3U-24MT
WIRING DIAGRAM**

Remarks: The output load can only be connected to DC (within 3A), do not connect to AC or AC220V



POINT X INPUT IS NEGATIVE. LOW LEVEL NPN

Usb to Serial programming cable

