FX3U-14MR 6AD 2DA RTC RS485 PLC Compatible FX3U Programmable Logic Controller

The FX3U-14MR6AD2DA is a programmable logic controller designed for FX3U compatibility with integrated RTC, RS485 communication, relay outputs, and analog input/output capability.

Product Overview

This PLC belongs to the compatible FX3U series .It is designed for control applications requiring digital I/O, analog signal processing, RTC real-time clock functionality, and RS485 communication. With support for Modbus RTU, floating-point operation, HMI connection, and FX series instructions, it can be used in a wide range of industrial control environments.

Key Features & Advantages

- 8 digital input points (X0–X7) and 6 relay output points (Y0–Y5, 5A)
- 6 analog input channels: 3 × 0–10V and 3 × 0–20mA
- 2 analog output channels: 0–10V
- Built-in RTC real-time clock with battery backup
- RS485 communication interface with Modbus RTU and support for 4 communication protocols
- Supports floating-point operation, 16-bit encryption, 3 interrupt types, HMI, and customizable power-off retention

Applications

Suitable for industrial environments and equipment requiring:

- Digital and analog signal control
- RS485 communication and Modbus RTU networking
- HMI-connected automation systems
- High-speed counting applications
- Encoder-related control using AB encoder support
- FX series instruction-based control systems

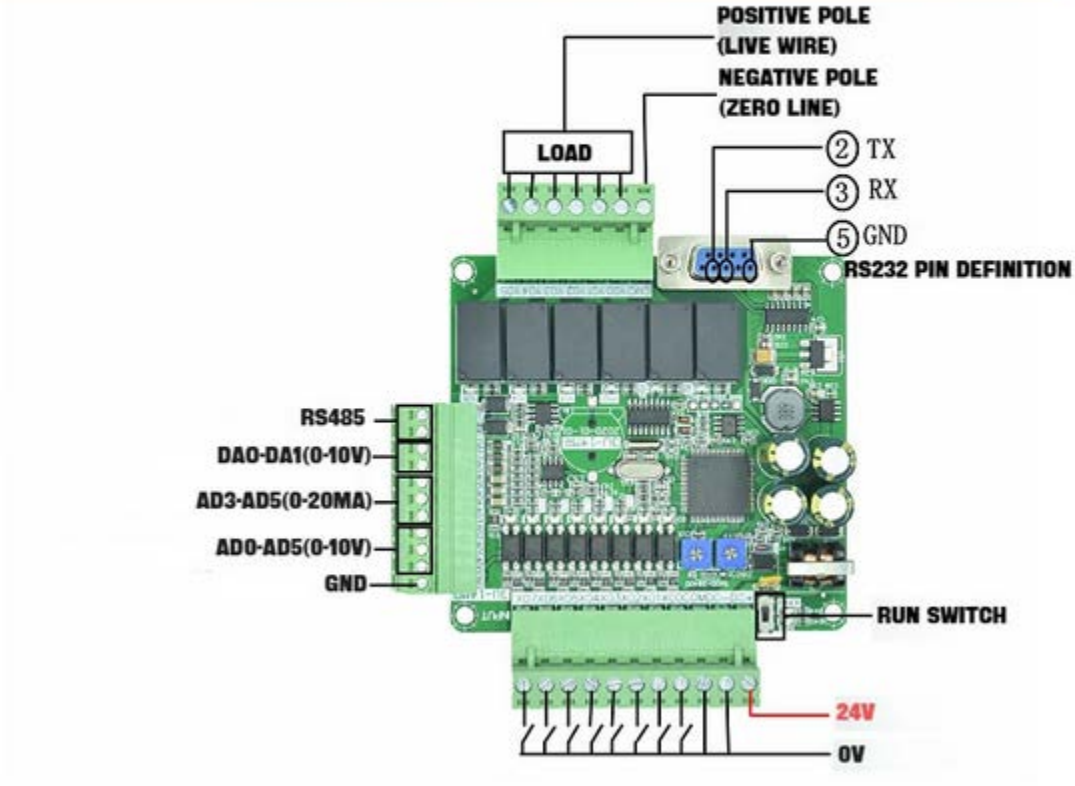
Software: GX-Developer/GX Works2

Programming Cable : USB to Serial cable

Specifications:

Input Power	DC24
Number of steps	8000 steps; 2 communication ports: 1 RS232 (DB9 serial port is communication port for the FX3u protocol 38400,7, E, 1 ; 1 RS485 (485 selection) communication protocol can be set D8120).
X input element	DC24, X0-X7 input, Low-level X0-5 is a high-speed count input port (**1K**)
Y output element	Y0-Y5 for optimal relay or transistor output, relay output current 5A.
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, Non harmonic; 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-14MR WIRING DIAGRAM



Usb to Serial programming cable