

FMC4030 HMI Manual

1. Product Introduction

The Longmen HMI is suitable for Fuyu Technology's Longmen structure linear module. It integrates power supply, controller, driver, touch screen, buttons and other components to form an integrated control system. It has the characteristics of simple operation, easy installation, safety and reliability, and is widely used in various industrial environments.

2. Appearance and usage conditions



Legend 1



Legend 2

2.1 Exterior dimensions

The size of the Longmen small electrical cabinet is 300 × 400 × 200mm, as shown in legend 1; Longmen electrical cabinet

The size is 400 × 500 × 250mm, as shown in legend 2.

2.2 Normal usage conditions.

Usage: Indoor or outdoor, avoid dust and corrosive gases

Environmental temperature: 0 °C~50 °C

Relative humidity: ≤ 75%, no condensation

Input voltage: 220VAC, 50Hz

3. Touch screen and button usage instructions

2.1 The use of touch screen

For detailed instructions on using the touch screen, please refer to the "FMC4030 Touch Screen Manual".

2.2 The use of buttons



Legend 3

The buttons are divided into power button and input button. The power button (third from the left in Figure 3) is self-locking. Press the power button to turn on, and the red indicator light will turn on. Press the power button again to turn off, and the indicator light will turn off. The input button is a self resetting button. Press the input signal to turn on, release it without any signal. INPUT1~INPUT4 shown in Figure 3 correspond to IN0~IN3 of the FMC4030 three-axis controller, respectively. For detailed information on the IN interface, please refer to the "FMC4030 Three Axis Motion Controller".

4 Power on/off steps

4.1 Power on

- (1) Open the cabinet door and check that there is no looseness in the wiring inside the cabinet. The wiring is good, and there is no obvious cable looseness visually.
- (2) Pull the circuit breaker handle upwards to connect the circuit breaker, then press the power button on the cabinet door. The indicator light will turn on and the screen will display the screen, indicating that the power on is complete.

4.2 Power off

- (1) Confirm that each module has been parked in a safe position.
- (2) Press the power button, the indicator light will turn off, the touch screen will go black, and the

shutdown is complete.

5.External interface of HMI



Legend 4



Legend 5

X1 Axis Motor socket wiring diagram				
terminal number	1	2	3	4
definition	A+	A-	B+	B-

Z AxisWiring diagram of photoelectric switch socket				
terminal number	1	2	3	4
definition	24v	0v	LP	LN

X2 Axis Motor socket wiring diagram				
terminal number	1	2	3	4
definition	A+	A-	B+	B-

Y AxisWiring diagram of photoelectric switch socket				
terminal number	1	2	3	4
definition	24v	0v	LP	LN

Y Axis Motor socket wiring diagram				
terminal number	1	2	3	4
definition	A+	A-	B+	B-

X AxisWiring diagram of photoelectric switch socket				
terminal number	1	2	3	4
definition	24v	0v	LP	LN

Z Axis Motor socket wiring diagram				
terminal number	1	2	3	4
definition	A+	A-	B+	B-

6. User Notice

- (1)This instruction is only for the operation of the HMI. If you have any other questions, please refer to the other instructions and documents provided with the machine.
- (2)If any abnormal situations occur during use, please contact the relevant technical personnel in a timely manner.
- (3)During maintenance or prolonged disuse, the air switch and front-end power supply inside the HMI must be disconnected to protect personal and equipment safety.