**FX3 series overview**

With the launch of FX3, Mitsubishi’s FX3 series line of microcontrollers is finally completed. Whatever your requirements may be, you will be sure to find just the right PLC you need. Push the limits of control with FX3 series PLCs.

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### Options and Features

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### Entry level

**Simple and cost effective.**

- **Basic model**
  - Program memory: 4k steps
  - 32k steps EEPROM
  - 32k steps EEPROM
  - 64k steps RAM
- **Only analog type**
  - Input: 2
  - Output: 1

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### Standard

**Features required for basic control and a variety of applications.**

- **Standard feature**
  - (Max. 256 with CC-Link)
- **24 I/O**: 2 axes
- **40/60 I/O**: 4, 2, 10
- **60kHz**: 4, 10kHz: 2
- **Max. 128**
- **100kHz**: 6, 10kHz: 2
- **Frequency (Hz)**
  - Acceleration
  - Action time: 11ms
  - Sweep Count for X, Y, Z: 10 times
  - Direction
- **External Dimensions**
  - Power Supply Specifications
    - FX3GE-24M: 32W, 21W
    - FX3GE-40M: 37W, 25W
  - Interrupt inputs: 6
  - Special data registers: 512 (D8000 - D8511)
  - Data registers:
    - Max. 8,000 total (206 100ms, 320 10ms, and 3,096 general/optional latched (S1000 - S4095)
    - 199 EEPROM latched (C16 - C199 and C220 - C234)
    - 235 total (16 bit and 32 bit), and 68 1ms (T246 - T249 and T256 - T319)
    - 46 10ms (T200 - T245)
    - 320 total, with 206 100ms (T0 - T199 and T250 - T255)
    - and 3,096 general/optional latched (S1000 - S4095)
    - 1,152 EEPROM latched (M384 - M1535)
    - 7,680 total, with 384 general (M0 - M383), and 6,144 general/optional latched (M1536 - M7679)
- **I/O points**: 256 total (combined local and CC-Link remote I/O)
- **Input/Output**
  - Inputs: 164, 80, 32
  - Outputs: 10 points (16 points)*1
- **Program protection**
  - 2 different keywords
  - Max password length: 16 characters
- **Programming language**
  - Step ladder, instruction list, SFC step ladder
- **Address range**
  - Max. 128 direct addressing and Max. 128 remote I/O
  - 124 applied instructions
- **Resolution**
  - Voltage output: 2.5mV (10V/4000)
  - Current output: 4μA (16mA/4000)
  - @ X010 or more: 5mA/24V DC, 4.3kΩ
  - @ X000 to X007: 7mA/24V DC, 3.3kΩ
- **Outputs**
  - 100kHz: 6, 10kHz: 2
  - Power fuse: FX3GE-24M: 250V 1A, 125V 2.5A
  - Allowable instantaneous power failure time: 10ms or less. 5ms or less.
  - Power consumption: FX3GE-24M: 32W, 21W
  - AC power type: 240V 1A
  - DC power type: 24V DC 0.5A
  - Interrupt inputs: 6
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All-in-one standard!

What's in the New FX3GE PLC!

FX3GE adds built-in analog input/output and Ethernet connectivity on top of FX3G performance. A great fit for many applications.

Built-in analog input

Optional additional built-in Analog Input and Analog Output can be connected.

Built-in analog output

Built-in Ethernet port

Supports remote monitoring and maintenance via high-speed 10BASE-T/100BASE-TX communication.

Web-based Data Monitoring

Read PLC information from any networked device with a standard web browser. For security, optional PLC keyword protection prohibits unauthorized access.

Flexible Expandability

Where can the new FX3GE PLC be used?

Take this flow control application in the food industry for example.

Other applications

- Smooth production control required for wood cutting machines
- Analog data management for injection molding machines
- Label printing machines with network functionality

Including analog and network features

FX3GE series Variety

In addition to its built-in features, FX3GE also has a wealth of expansion options. Choose from the same options for FX3G/FX3U.

Expansion boards and Special adapters

- FX3GE-40MR/ES
- FX3GE-40MT/ES
- FX3GE-40MT/ESS
- FX3GE-24MR/DS
- FX3GE-24MT/DS
- FX3GE-24MT/DSS

Communication and analog special adapters

- *FX3G-EEPROM-32L*
- FX3G-5DM*
- FX3G-232-BD
- FX3G-422-BD
- FX3G-485-BD
- FX3G-8AV-BD
- FX3G-1DA-BD
- FX3G-2AD-BD

Voltage Input Type

0 to 10V DC

Current Output Type

4 to 20mA (Resolution 2.5mV / 16mA / 4000)

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Voltage Input Type

0 to 10V DC

Current Output Type

4 to 20mA (Resolution 2.5mV / 16mA / 4000)

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- FX3G-1DA-BD
- FX3G-2AD-BD

Voltage Input Type

0 to 10V DC

Current Output Type

4 to 20mA (Resolution 2.5mV / 16mA / 4000)