Mitsubishi □□ □□□ □□□ Series Service Manual

FX1S-20MR-001

1. Description

FX1S-20MR-001

2. Specifications

Specification	Value
Catalog	**Number: FX1S-20MR-001**

3. Product Information

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FX1S-20MR-001 | Mitsubishi Electric | Programmable logic controller

Overview

The Mitsubishi FX1S-20MR-001 is a compact PLC main unit from the FX1S series, offering 20 I/O points (12 inputs and 8 relay outputs) powered by 24 V DC. With its small footprint and reliable performance, this controller is ideal for basic automation, logic sequencing, and OEM machinery applications.

Key Features

Total I/O: 20 points (12 inputs, 8 relay outputs)

Output Type: Relay

Power Supply: 24 V DC

Compact all-in-one unit with embedded relay outputs

Supports high-speed counters and timers

Integrated safety diagnostics and error detection

Compatible with GX Developer programming software

Dust-tight and UL-certified for industrial use

Technical Specifications

Catalog Number: FX1S-20MR-001

Inputs: 12 digital (sink/source)

Outputs: 8 relay (2 A max per point)

Input Voltage: 24 V DC ±10%

Program Memory: 2,000 steps

Power Consumption: Approx. 10 W

Mounting: DIN rail or panel

Dimensions: 120 × 90 × 86 mm (W×H×D)

Protection Class: IP10 (open type)

Operating Temperature: 0 °C to +55 °C

Certifications: CE, UL (E175732), cUL

Brand: MITSUBISHI

Name: PLC

Model: FX1S-20MR-001

Total points: 20 points.

Input points: 12 points.

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Output points: 8 points.

Voltage: AC220V.

Output type: relay.

Outline dimension: 75*75*90.

MITSUBISHI FX1S series PLC is suitable for the smallest package,

It is the preferred target for low cost users to seek powerful control over a limited range of I/0.

FX1S provides up to 30 I/O points, and can be transmitted through serial communication data,

MT models also have the ability to locate, widely used in a variety of small mechanical equipment.

Input and output points: 24 points.

Power supply: DC24V.

Input points: 14 points.

Output points: 10 points.

Output form: transistor output (source).

Power consumption: 21W.

Weight: 0.55KG.

Outline dimension: 90x90x86mm.

A free combination of PLC.

FX3G basic unit: 14/24/40/60 point.

FX3GA is a compact PLC, simple design and with the basic functions of the FX3 series FX1S-20MR-001.

Through the strengthening of the built-in function and flexible expansion, expanded in various fields of application FX1S-20MR-001

Third generation standard model.

High flexibility.

Suitable for small scale control of high cost.

Control points to 128 points, the use of CC-Link remote I/O can control the maximum 256 points.

High speed operation FX1S-20MR-001.

Basic instructions: 0.21 s/ instruction.

Application instruction: 0.5 s/ instruction.

Large capacity memory.

Built in program memory 32000 steps.

EEPROM memory cartridge with program transfer function.

Third generation standard model.

Easy to use integrated models and flexible scalability.

Condensed convenience of using the usual FX3 series.

Its high price by the most suitable for small scale control FX1S-20MR-001. Max input / output points: 60 points.

Supply voltage: 100 - 240VAC.

Input points: 36 points.

Output points: 24 points.

Output type: transistor.

Power consumption (W): 35.

Weight (kg):0.8.

Size (WxHxD) mm:175x90x75.

Rich functionality.

FX series of products are rich in variety, users can be based on cost or application,

Choose the most suitable product. Will find a suitable model for the user site.

Terminal row type standard machine with extended input output

Can also be less of a system with analog or communication, etc..

CPU, power supply, input and output integration.

Display module or function expansion board can be less installed.

In addition, you can also reduce the input output or special module.

Built in 8000 step EPROM memory.

No battery. Maintenance free.

Overseas oriented products meet all kinds of international standards. Max input / output points: 20 points.

Supply voltage: 100 - 240VAC.

Input points: 12 points.

Output points: 8 points.

Output type: relay.

Power consumption (W): 20.

Weight (kg):0.4.

Size (WxHxD) mm:75x90x75.

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Host has 10 points (6I/4O), 14 points (8I/6O), 20 points (12I/8O), 30 points (16I/14O) of 4 types.

This type of PLC is mainly used in all of the digital input, digital output control point of the device.

Can be directly connected to the 220V city power, built-in 8K step EEPROM memory,, no battery, easy to maintain FX1S-20MR-001.

The series transistor output (MT) of the PLC, can be output 2 100KHz pulse, direct drive servo or stepper motor.

The series PLC can not be brought with the expansion module, but can be installed by the BBD board to extend a small amount of I/O FX1S-20MR-001.

The series 1N through the installation of BD series PLC board, can achieve RS232, RS485, RS422 communication.