

FXDOM01

DIASYS ControlNet FLEX I/O Digital Output Module

Mitsubishi FXDOM01 is the diasys controlnet flex i/o digital output module for Mitsubishi Power DIASYS control system. It provides eight-channel isolated digital output switching on a ControlNet

PRODUCT SNAPSHOT

BRAND
Mitsubishi

FAMILY
Mitsubishi Power DIASYS control

PART
FXDOM01

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

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PRODUCT OVERVIEW

Mitsubishi FXDOM01 provides eight-channel isolated digital output switching on a ControlNet FLEX I/O network in a documented Mitsubishi Power DIASYS control system installation.



Digital outputs: 8



Network platform: ControlNet FLEX I/O



Isolation: Individual opto-isolation



Output contact: MOSFET N.O. PhotoMOS relay

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Mitsubishi MR-D05UDL3M-B

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Mitsubishi FX3U-4AD-PT-ADP

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Mitsubishi FR-U120S-0.75K-ER

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
DIASYS ControlNet FLEX I/O Digital Output Module	Mitsubishi Power DIASYS control system
Documented power, signal and communication interfaces	Approved engineering configuration and acceptance record

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Digital outputs	8
Network platform	ControlNet FLEX I/O
Isolation	Individual opto-isolation
Output contact	MOSFET N.O. PhotoMOS relay
Output voltage with 1794-TB3	120 V DC / 120 V AC, 0.5 A
Output voltage with 1794-TBN	220 V DC / 230 V AC, 0.5 A
Output leakage current	10 microampere maximum

PARAMETER	VALUE
Output ON resistance	3.2 ohm maximum
Self diagnostics	Watchdog, low supply voltage and bus timeout
Compatible terminal bases	1794-TB3/TB3S and 1794-TBN/TBNF
Power supply	24 V DC +/-10%, less than 40 mA
FLEX bus supply	5 V DC, less than 80 mA
Operating temperature	0 to 55 deg C
Operating humidity	35 to 95% RH, non-condensing

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TECHNICAL NOTE

Use FXDOM01 only in the documented Mitsubishi Power DIASYS control system position. Preserve the exact connectors, power, signal or network configuration and verify eight-channel isolated digital output switching on a ControlNet FLEX I/O network during controlled commissioning.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Mitsubishi Power DIASYS control system installation

Uses FXDOM01 for eight-channel isolated digital output switching on a ControlNet FLEX I/O network in

Controlled replacement

Restores the exact FXDOM01 identity, interfaces and configuration before energization.

Commissioning verification

Checks FXDOM01 diagnostics and the affected function under controlled conditions.

Lifecycle maintenance

Preserves the approved Mitsubishi Power DIASYS control system wiring, network and engineering record

PRODUCT PRECAUTIONS

1

Confirm the complete FXDOM01 marking and the documented DIASYS ControlNet FLEX I/O Digital

2

Place the machine, controller and affected process in the approved maintenance state.

3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4

Record the installed position, every terminal or port, and the active engineering configuration.

5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

6

Restore protective earth, shielding, wiring, communications and the approved project or

7

Energize under control and review all device, rack, network and process diagnostics.

8

Complete a controlled functional test of eight-channel isolated digital output switching on a ControlNet FLEX

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ENGINEER FAQ

Q1 How many isolated output points are fitted to FXDOM01?

For FXDOM01, the official Mitsubishi evidence records digital outputs as 8. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration and confirm the affected

Q2 Which networked FLEX I/O platform hosts the module?

For FXDOM01, the official Mitsubishi evidence records network platform as ControlNet FLEX I/O. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration

Q3 How is channel-to-channel isolation implemented?

For FXDOM01, the official Mitsubishi evidence records isolation as Individual opto-isolation. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration and confirm the

Q4 What switching element is used for each normally open output?

For FXDOM01, the official Mitsubishi evidence records output contact as MOSFET N.O. PhotoMOS relay. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration

Q5 Which output rating applies when a 1794-TB3 base is used?

For FXDOM01, the official Mitsubishi evidence records output voltage with 1794-tb3 as 120 V DC / 120 V AC, 0.5 A. Apply that value only within the documented Mitsubishi Power DIASYS control system

Q6 Which higher-voltage rating applies with a 1794-TBN base?

For FXDOM01, the official Mitsubishi evidence records output voltage with 1794-tbn as 220 V DC / 230 V AC, 0.5 A. Apply that value only within the documented Mitsubishi Power DIASYS control system

Q7 What maximum off-state leakage should an acceptance test expect?

For FXDOM01, the official Mitsubishi evidence records output leakage current as 10 microampere maximum. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration

Q8 What maximum on-resistance is specified for the PhotoMOS output?

For FXDOM01, the official Mitsubishi evidence records output on resistance as 3.2 ohm maximum. Apply that value only within the documented Mitsubishi Power DIASYS control system configuration

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SOURCE Mitsubishi Hitachi Power Systems FXDOM01 specification CGS-N2501-E-01 | Official manufacturer evidence verified 28 September 2026

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