



Mitsubishi FX3U Logic Module User Manual

[Home](#) » [Mitsubishi](#) » Mitsubishi FX3U Logic Module User Manual 

Contents

- [1 Mitsubishi FX3U Logic Module](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Connection](#)
- [5 Definition of PLC Read/Write Address](#)
- [6 Documents / Resources](#)
- [7 Related Posts](#)



Mitsubishi FX3U Logic Module



Product Information

The product is called PLC1.ir. It is a control device used in industrial automation systems. It is designed to interface with various other components and devices to control and monitor processes.

HMI Factory Setting:

The HMI (Human Machine Interface) of the PLC1.ir has a default setting. The default communication parameters are as follows:

- **Baud Rate:** 9600
- **Data Bits:** 7
- **Parity:** Even
- **Stop Bits:** 1

Controller Specifications:

The PLC1.ir controller has the following specifications:

- Number of Digital Inputs: 10 (Pulse Counter Inputs included)
- Number of Digital Outputs: 10
- Number of Analog Inputs: 3
- Number of Analog Outputs: 1

Compatibility:

The PLC1.ir is compatible with the DOP Series HMI Controllers and RS-422 (DOP-B Series) devices.

Product Usage Instructions

Connection Setup:

To use the PLC1.ir, follow these steps to set up the connections:

1. Connect the PLC1.ir to the power supply using appropriate power cables.
2. Connect the PLC1.ir to the HMI Controller or RS-422 device using compatible communication cables.
3. Connect the required input and output devices to the PLC1.ir's digital and analog ports.

Programming and Configuration:

To program and configure the PLC1.ir, please refer to the user manual specific to the software or programming language being used. The manual will provide detailed instructions on how to write and upload programs, configure inputs and outputs, and set up communication parameters.

Operation:

Once the PLC1.ir is connected and programmed, it can be operated by providing appropriate inputs through connected devices. The PLC1.ir will process these inputs and generate the desired outputs based on the programmed logic.

Troubleshooting:

If you encounter any issues or errors while using the PLC1.ir, please refer to the troubleshooting section of the user manual or contact our customer support for assistance.

Mitsubishi FX3U**• HMI Factory Setting:**

- Baud rate: 9600, 7, Even, 1
- Controller Station Number: 0 (no PLC station number in protocol, therefore, only 1(HMI) to 1(PLC) communication is allowed.)
- Control Area / Status Area: D0 / D10

Connection**RS-422 (DOP-A/AE Series)**

DOP Series		Controller
9 pin D- sub male		
RXD- (1)	—————	TXD- (4)
RXD+ (2)	—————	TXD+ (7)
TXD+ (3)	—————	RXD+ (2)
TXD- (4)	—————	RXD- (1)
GND (5)	—————	SG (3)

RS-422 (DOP-AS35/AS38/AS57 Series)

DOP Series		Controller
9 pin D- sub male		
R-	_____	TXD- (4)
R+	_____	TXD+ (7)
T+	_____	RXD+ (2)
T-	_____	RXD- (1)
GND (5)	_____	SG (3)

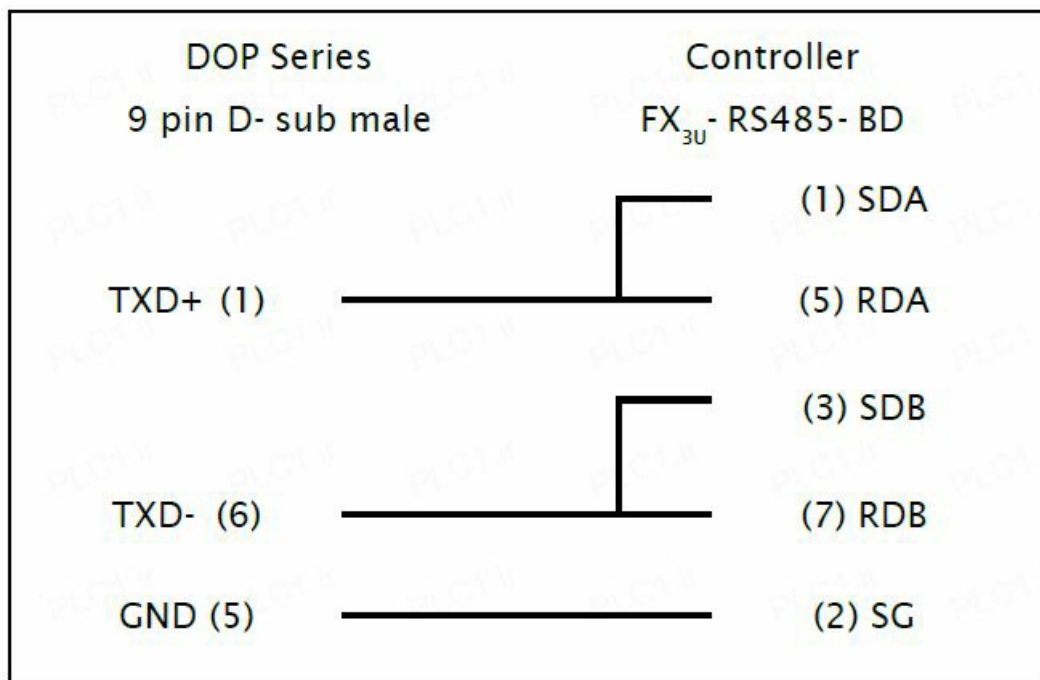
RS-422 (DOP-B Series)

DOP Series		Controller
9 pin D- sub male		
RXD- (9)	_____	TXD- (4)
RXD+ (4)	_____	TXD+ (7)
TXD+ (1)	_____	RXD+ (2)
TXD- (6)	_____	RXD- (1)
GND (5)	_____	SG (3)

RS-232 (DOP-B Series)

DOP Series		Controller
9 pin D- sub male		FX _{3U} - RS232- BD
RXD (2)	_____	(3) SD[TXD]
TXD (3)	_____	(2) RD[RXD]
GND (5)	_____	(5) SG

RS-485 (DOP-B Series)



Definition of PLC Read/Write Address

Registers

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Auxiliary Relay	Mn	M0 – M7664	Word	<u>1</u>
Special Auxiliary Relay	Mn	M8000 – M8496	Word	<u>1</u>
Status Relay	Sn	S0 – S4080	Word	<u>1</u>
Input Relay	Xn	X0 – X360	Word	Octal, <u>1</u>
Output Relay	Yn	Y0 – Y360	Word	Octal, <u>1</u>
Timer PV	Tn	T0 – T511	Word	
16 – bit Counter PV	Cn	C0 – C199	Word	
32 – bit Counter PV	Cn	C200 – C255	Double Word	
Data Register	Dn	D0 – D7999	Word	
Special Data Register	Dn	D8000 – D8511	Word	
Extension Register	Rn	R0 – R32767	Word	

Contacts


Type	Format	Read/Write Range	Note
	Bit No. (b)		
Auxiliary Relay	Mb	M0 – M7679	
Special Auxiliary Relay	Mb	M8000 – M8511	
Status Relay	Sb	S0 – S4095	
Input Relay	Xb	X0 – X377	Octal
Output Relay	Yb	Y0 – Y377	Octal
Timer Flag	Tb	T0 – T511	
Counter Flag	Cb	C0 – C255	

NOTE

1. The device address must be the multiple of 16.

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Documents / Resources

	<p>Mitsubishi FX3U Logic Module [pdf] User Manual PLC1, DOP Series, FX3U Logic Module, FX3U, Logic Module, Module</p>
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