

Mitsubishi QnA Series

Supported Series: Mitsubishi QnA Series

Website: <http://www.mitsubishi-automation.com>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi QnA Series		
PLC I/F	RS232	RS232, RS485 4W	
Baud rate	19200		
Data bits	8		
Parity	Odd		
Stop bits	1		

*Support communications between HMI and PLC in pass-through mode

*Set LW-9903 to 2 to enhance the speed of download/upload PLC program in pass-through mode

Online simulator	YES	Extend address mode	NO
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Device Address:

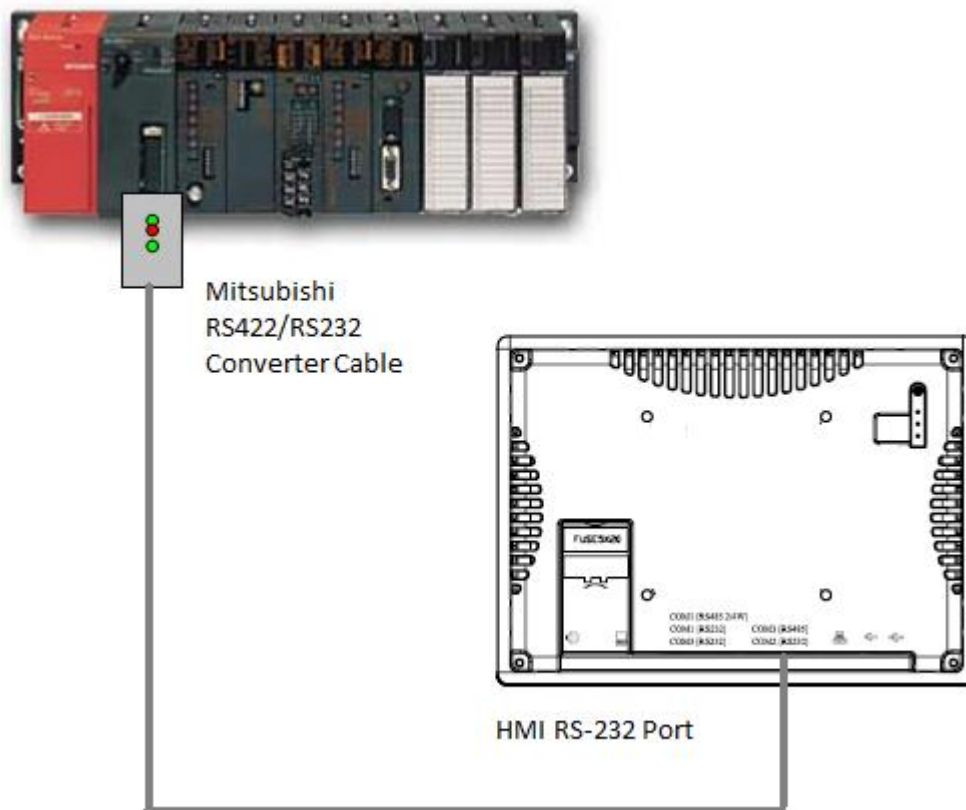
Bit/Word	Device type	Format	Range	Memo
B	X	HHHH	0 ~ 1fff	Input Relay
B	Y	HHHH	0 ~ 1fff	Output Relay
B	M	DDDDD	0 ~ 32767	Internal Relay
B	SM	DDDD	0 ~ 2047	Special Relay
B	L	DDDDD	0 ~ 32767	Latch Relay
B	F	DDDDD	0 ~ 32767	Annunciator
B	V	DDDDD	0 ~ 32767	Edge Relay
B	S	DDDD	0 ~ 8191	Step relay
B	B	HHHH	0 ~ 7fff	Link Relay
B	SB	HHH	0 ~ 7ff	Special Link Relay
B	TS	DDDDD	0 ~ 23087	Timer Contact
B	TC	DDDDD	0 ~ 23087	Timer Coil
B	CS	DDDDD	0 ~ 23087	Counter Contact
B	CC	DDDDD	0 ~ 23087	Counter Coil
B	D_Bit	DDDDDh	0 ~ 25983f	Data Register Bit
B	ZR_Bit	HHHHHh	0 ~ fe7fff	File Register Bit

Bit/Word	Device type	Format	Range	Memo
W	D	DDDDD	0 ~ 25983	Data Register
W	SD	DDDD	0 ~ 2047	Special register
W	W	HHHH	0 ~ 657f	Link Register
W	SW	HHH	0 ~ 7ff	Special Link Register
W	TN	DDDDD	0 ~ 23087	Timer Current Value
W	CN	DDDDD	0 ~ 23087	Counter Current Value
W	R	FFDDDDD	0 ~ 32767	File Register (FF:File No. 0~) (DDDDD:0~32767)
W	ZR	HHHHHH	0 ~ fe7ff	File Register

Wiring Diagram:

Use the RS422 to RS232 PLC programming cable (shown as follows)

mitsubishi QnA Series CPU



Note: Due to hardware limitations, this PLC is not supported by HMI models without RTS/CTS.

Diagram 1

RS-232

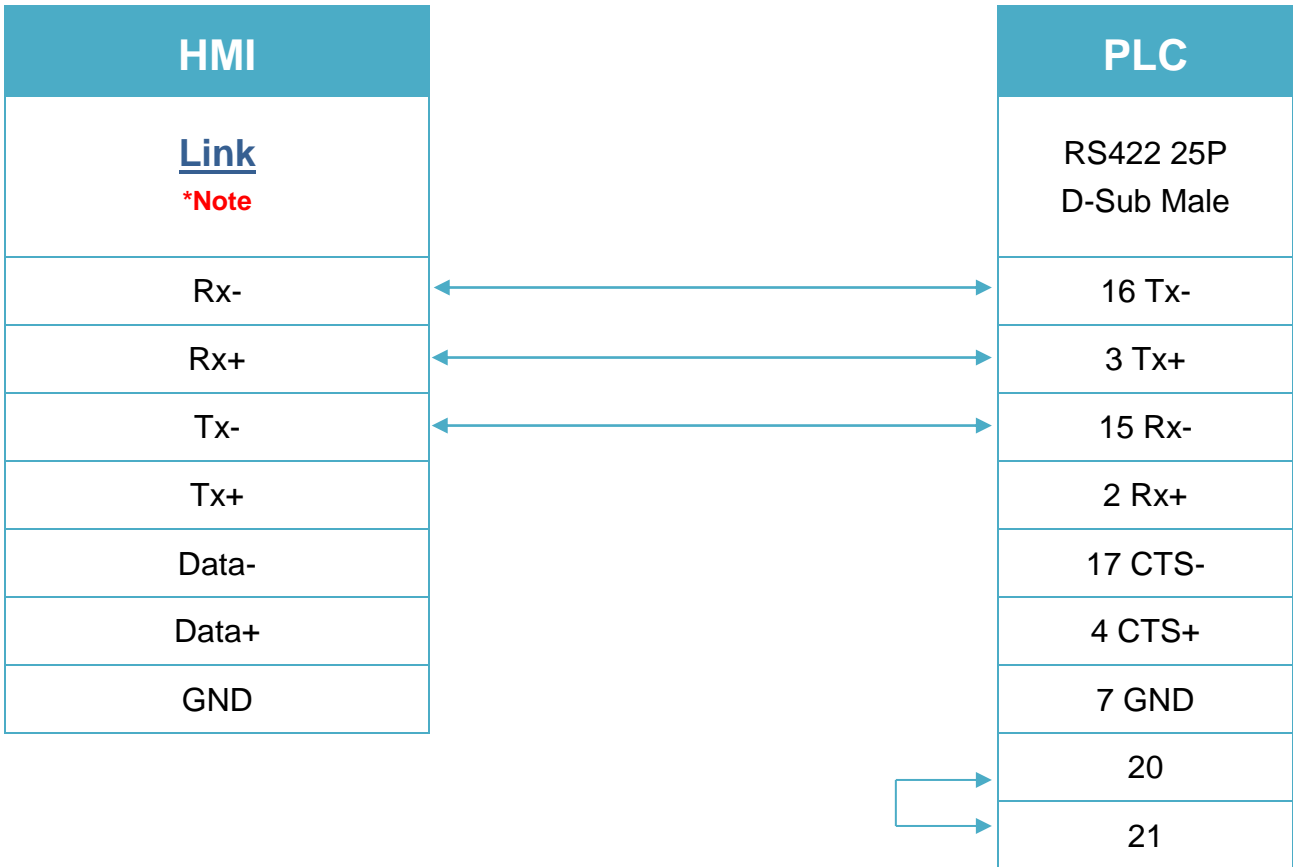
The serial port pin assignments may vary between HMI models, please click the following link for more information.

HMI	PLC Programming Converter		PLC
Link			RS422 25P D-Sub Male
Rx	TX	TX+	2 RX+
Tx	RX	RX+	3 TX+
GND	GND	DTR+	4 DSR+
RTS	CTS	GND	7 GND
CTS	RTS	TX-	15 RX-
		RX-	16 TX-
		DTR-	17 DSR-

Diagram 2

RS-485 4W

The serial port pin assignments may vary between HMI models, please click the following link for more information.



*Note:

The following models/ os versions support RS-485 4W communication:

HMI Model	OS Version
cMT-G01/G02	20200108/20200117
cMT-SVR 100/200	2020304
cMT-FHDX-220/520	upcoming release