

Mitsubishi A3A/A3N/A1SH/A2SH

Supported Series: Mitsubishi A3A,A3N,A1SH,A2SH

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

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi A3A/A3N/A1SH/A2SH		
PLC I/F	RS232		
Baud rate	9600		
Data bits	8		
Parity	Odd		
Stop bits	1		
PLC sta. no.	0		
File register	0	0 ~ 8	*Note

Online simulator	NO
-------------------------	----

*Note: Parameter -> Memory capacity -> File register

The screenshot shows the 'A parameter' dialog box with the following settings:

- Program capacity:** Sequence (1--30) Microcomputer, Main: 6 K steps, 0 Kbytes
- Network:** 0 Kbytes
- Sub-sequence (0--30) Sub-microcomputer (None):** Sub1: 0 K steps, 0 Kbytes; Sub2: 0 K steps; Sub3: 0 K steps
- File register (0--8):** 1 K points, 2048 Bytes (highlighted with a red box and an orange arrow)
- Memory capacity information:** Main capacity: 12 Kbytes; Sub capacity: 0 Kbytes; Total capacity: 18 Kbytes

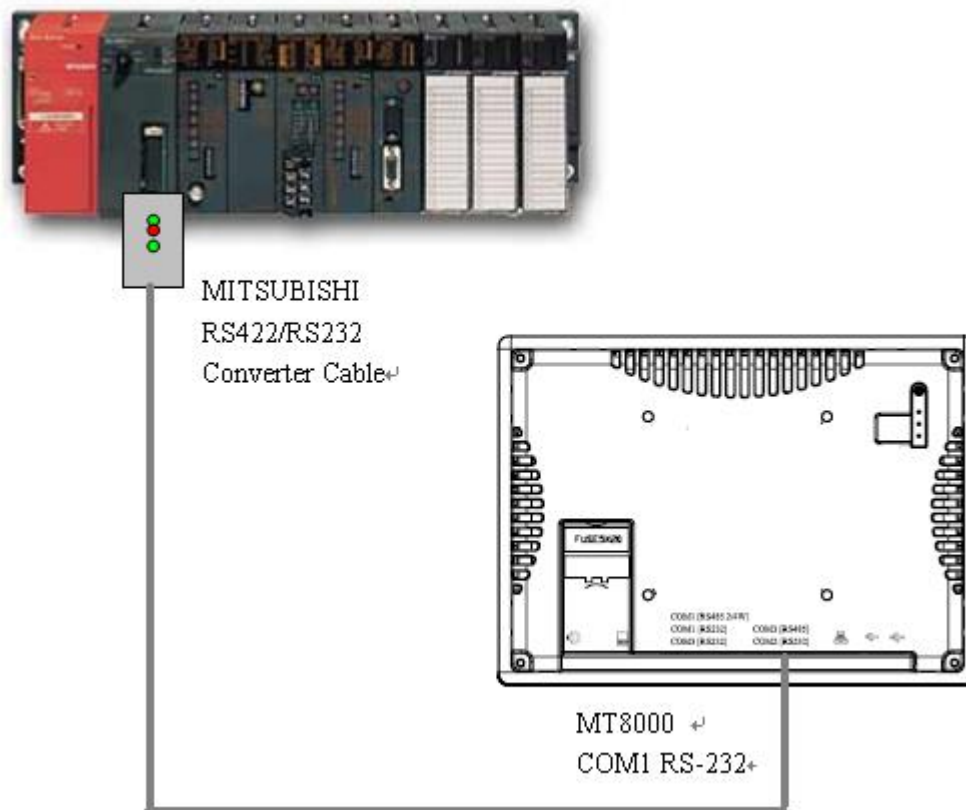
Device Address:

Bit/Word	Device type	Format	Range	Memo
B	X	HHHH	0 ~ ffff	Input Relay
B	Y	HHHH	0 ~ ffff	Output Relay
B	M	DDDDD	0 ~ 65535	Auxiliary Relay
B	B	HHHH	0 ~ ffff	
B	F	DDDDD	0 ~ 65535	
W	TV	DDDDD	0 ~ 65535	Timer Memory
W	CV	DDDDD	0 ~ 65535	Counter Memory
W	D	DDDDD	0 ~ 65535	Data Register
W	W	HHHH	0 ~ ffff	
W	R	DDDDD	0 ~ 65535	

Wiring Diagram:

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

MITSUBISHI AnS 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

cMT-G01, cMT-G02, cMT-SVR-100/200, cMT-FHDX-820, cMT-SVRX-820 connection diagram

HMI		PLC
Link RS485-4W		A Series PLC CPU 25 pin
8 TX+	←→	2 RX+
9 TX-	←→	15 RX-
6 RX+	←→	3 TX+
7 RX-	←→	16 TX-
1 Data+	←→	4 CTS+
4 Data-		17 CTS-
5 GND		7GND
		20 21 Short