

# Mitsubishi A1S/A2N

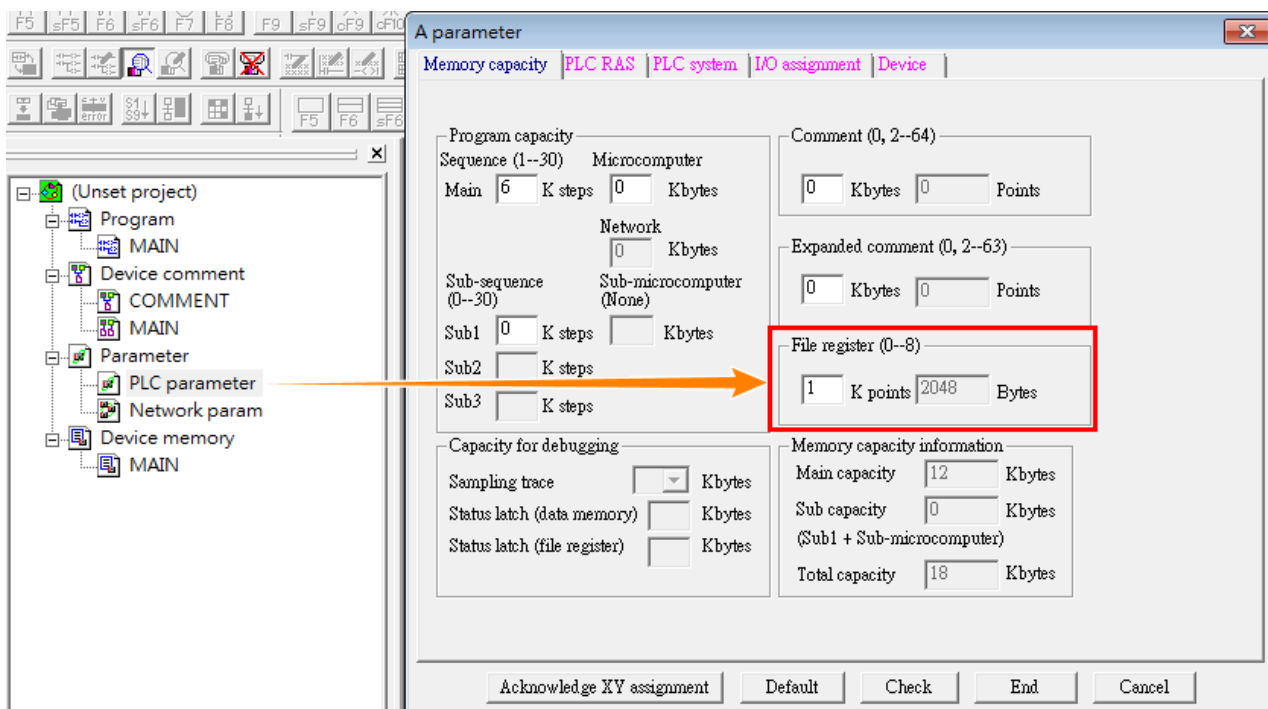
Supported Series: Mitsubishi A1S/A2N

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

## HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Mitsubishi A1S/A2N		
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

\*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, Sub2 0 K steps, Sub3 0 K steps
- Comment (0, 2--64):** 0 Kbytes, 0 Points
- Expanded comment (0, 2--63):** 0 Kbytes, 0 Points
- File register (0--8):** 1 K points, 2048 Bytes (highlighted with a red box)
- Capacity for debugging:**
  - Sampling trace: [ ] Kbytes
  - Status latch (data memory): [ ] Kbytes
  - Status latch (file register): [ ] Kbytes
- Memory capacity information:**
  - Main capacity: 12 Kbytes
  - Sub capacity: 0 Kbytes (Sub1 + Sub-microcomputer)
  - Total capacity: 18 Kbytes

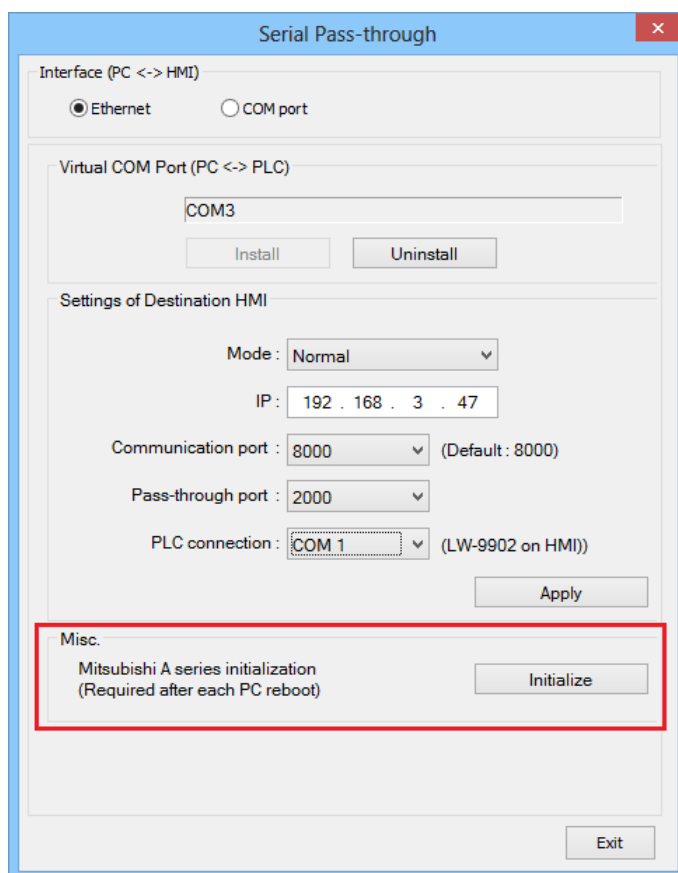
Buttons at the bottom: Acknowledge XY assignment, Default, Check, End, Cancel.

## Device Address:

Bit/Word	Device	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	

## Pass-through:

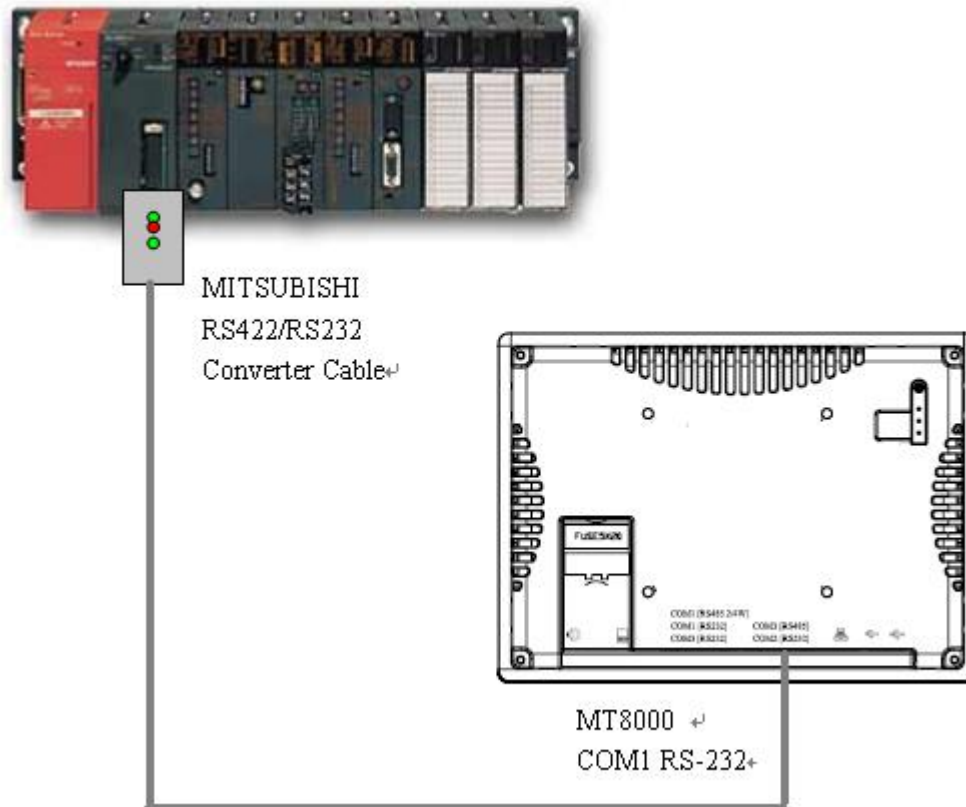
When the PC reboots or virtual com port is reinstalled, it needs to be re-initialized for pass-through.



## 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
<a href="#">Link</a>			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
<a href="#">Link</a> 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