

Mitsubishi A1S/A2N

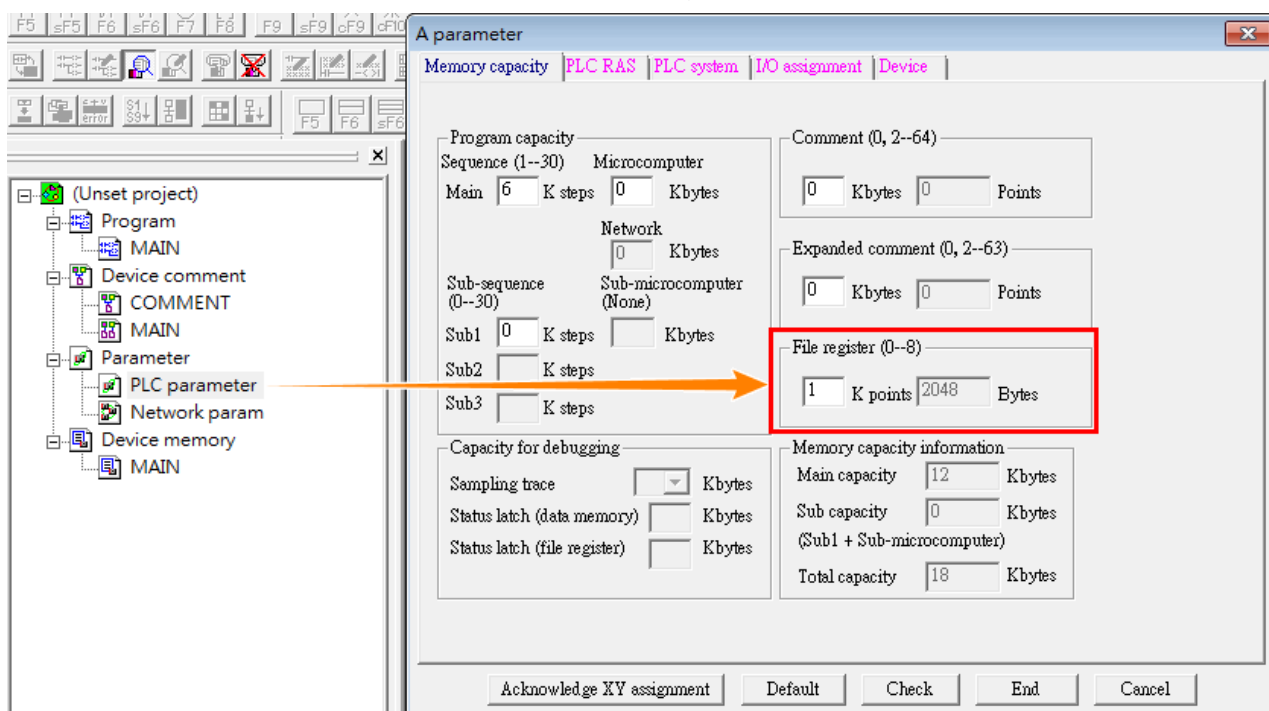
Supported Series: Mitsubishi A1S/A2N

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



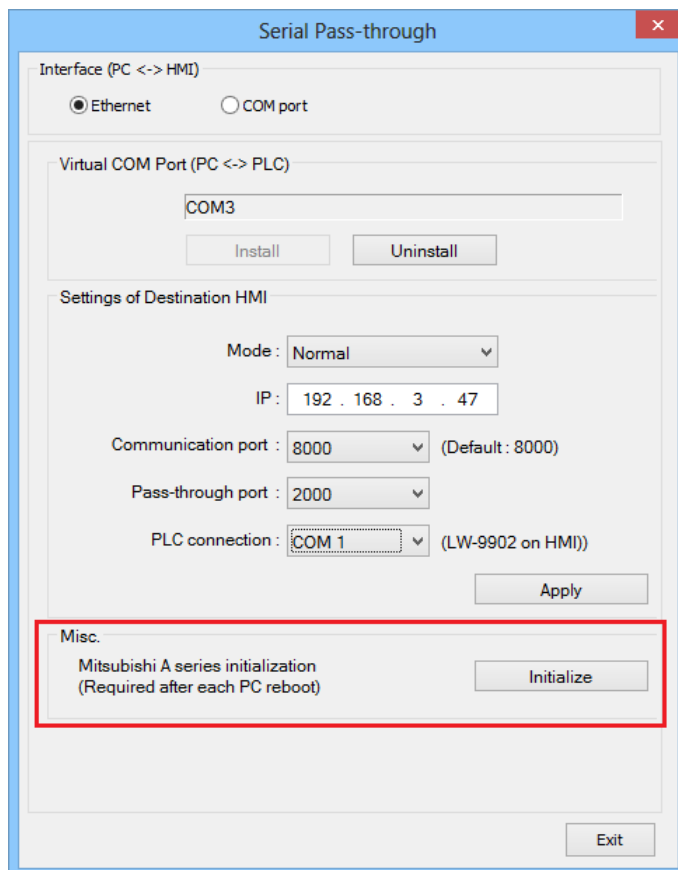
The screenshot shows the 'A parameter' dialog box with the 'Memory capacity' tab selected. The 'File register (0-8)' field is highlighted with a red box and an orange arrow pointing to it from the 'PLC parameter' in the project tree on the left. The 'File register' is set to 1 K points and 2048 Bytes. Other fields include Program capacity, Comment, Expanded comment, Capacity for debugging, and Memory capacity information.

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.



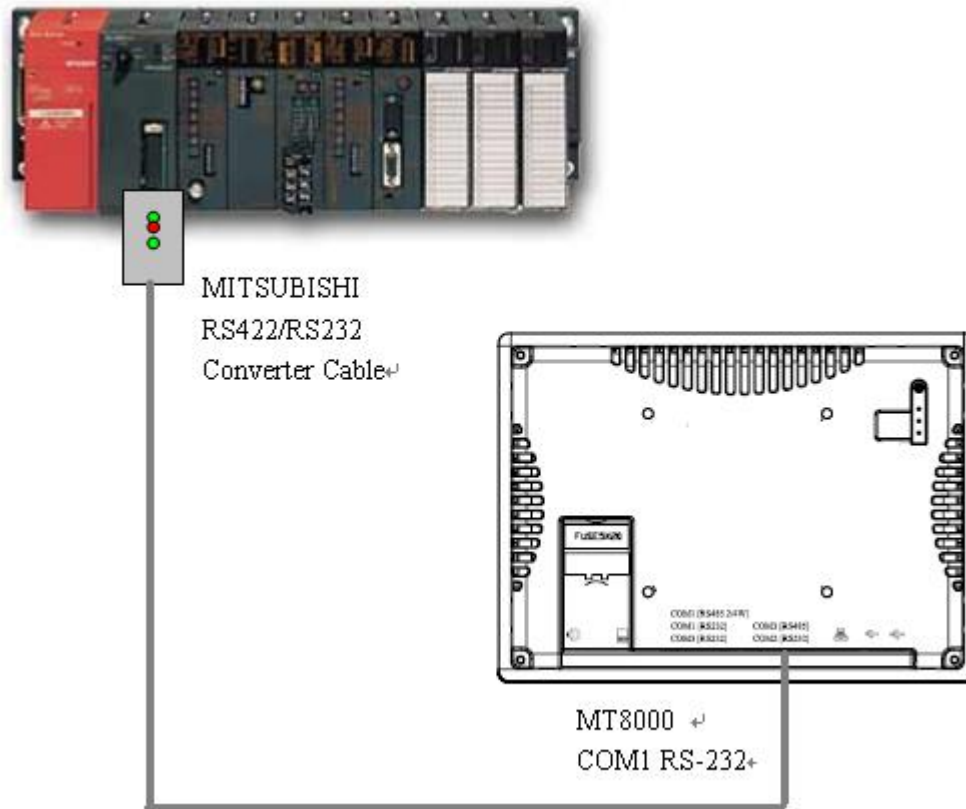
The image shows a 'Serial Pass-through' configuration window. It has a title bar with a close button. The window is divided into several sections:

- Interface (PC <-> HMI):** Contains two radio buttons: 'Ethernet' (selected) and 'COM port'.
- Virtual COM Port (PC <-> PLC):** Contains a text box with 'COM3', and 'Install' and 'Uninstall' buttons.
- Settings of Destination HMI:** Contains several settings:
 - Mode:** A dropdown menu set to 'Normal'.
 - IP:** A text box with '192 . 168 . 3 . 47'.
 - Communication port:** A dropdown menu set to '8000' (Default: 8000).
 - Pass-through port:** A dropdown menu set to '2000'.
 - PLC connection:** A dropdown menu set to 'COM 1' (LW-9902 on HMI).
 - An 'Apply' button.
- Misc.:** A section at the bottom, highlighted with a red rectangle, containing:
 - Mitsubishi A series initialization** (Required after each PC reboot).
 - An 'Initialize' button.
- An 'Exit' button at the bottom right.

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