Panasonic FP/KW

Supported Series: NAIS (Matsushita) FP/KW series include FP-X, FP-XH, FP-Σ, FP0, FP1, FP2, FP2SH, FP10SH, FP7
Website:http://pewa.panasonic.com/

HMI Settings:

Parameters	Recommended	Options	Notes
PLC type	Panasonic FP/KW		
PLC I/F	RS232	RS232/RS485	
Baud rate	9600	9600, 19200, 38400,	
Data bits	8	7 or 8	
Parity	Odd	Even, Odd, None	
Stop bits	1	1 or 2	
PLC sta. no.	1	1-32	Must match the PLC port setting. FP3 must set to 0.

*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
*When using pass-through, the driver will stop communication between HMI and PLC.

PLC Settings:

Operating mode setting	MEWTOCOL-COM

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	X	DDDDh	0 ~ 9999f	Input (X)
B	Y	DDDDh	0 ~ 9999f	Output (Y)
B	R	DDDDh	0 ~ 9999f	Internal Relay (R)
B	L	DDDD	0 ~ 9999	Link Relay (L)
B	L_Bit	DDDDh	0 ~ 9999f	
B	T	DDDD	0 ~ 9999	Timer (T)
B	C	DDDD	0 ~ 9999	Counter (C)
W	SV	DDDD	0 ~ 9999	Timer/Counter Set Value
W	EV	DDDDD	0 ~ 65535	Timer/Counter Elapse Value

Bit/Word	Device type	Format	Range	Memo
W	DT	DDDDD	0 ~ 99999	Data Register (DT)
W	LD	DDDD	0 ~ 8447	Link Register (LD)
W	WX	DDDD	0 ~ 9999	Input (WX) (read only)
W	WY	DDDD	0 ~ 9999	Output (WY)
W	WR	DDDD	0 ~ 9999	Internal Relay (WR)
W	WL	DDDD	0 ~ 9999	Link Relay (WL)
W	FL	DDDDD	0 ~ 99999	File Register (FL)
W	DT_String	DDDDD	0 ~ 99999	*Note

Note:

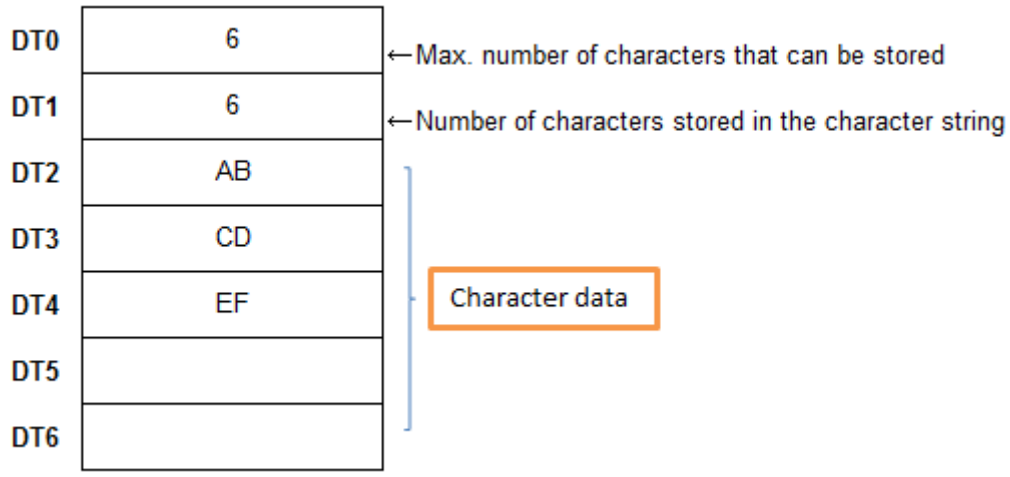
Data table for character strings show the character string size, the number of characters, and the character data.

The example shows a character string data table specifying the following:

Character string size:6

Number of characters: 6

Character data: “ ABCDEF”



As mentioned above, DT_String will start reading from character data, and writing will automatically fill in character string size and number of characters, so it is not recommended to use DT_String in data sampling.

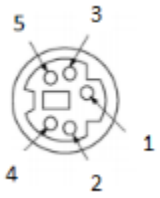
Wiring Diagram:

Diagram 1

RS-232 (FP0, FP2, FP2SH, FPM CPU : 9P D-Sub to 5P Mini-DIN)

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

The following is the view from the soldering point of a connector.



HMI		PLC
Link		RS232 5P Mini-DIN Male
Rx	⟷	2 TXD
Tx	⟷	3 RXD
GND	⟷	1 GND

Diagram 2

RS-232 (FP0 CPU : 9P D-Sub to 3P Terminal)

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

HMI		PLC
Link		RS232 3P Terminal
Rx	⟷	S
Tx	⟷	R
GND	⟷	G

Diagram 3

RS-232 (RS232 9P D-Sub Male)

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

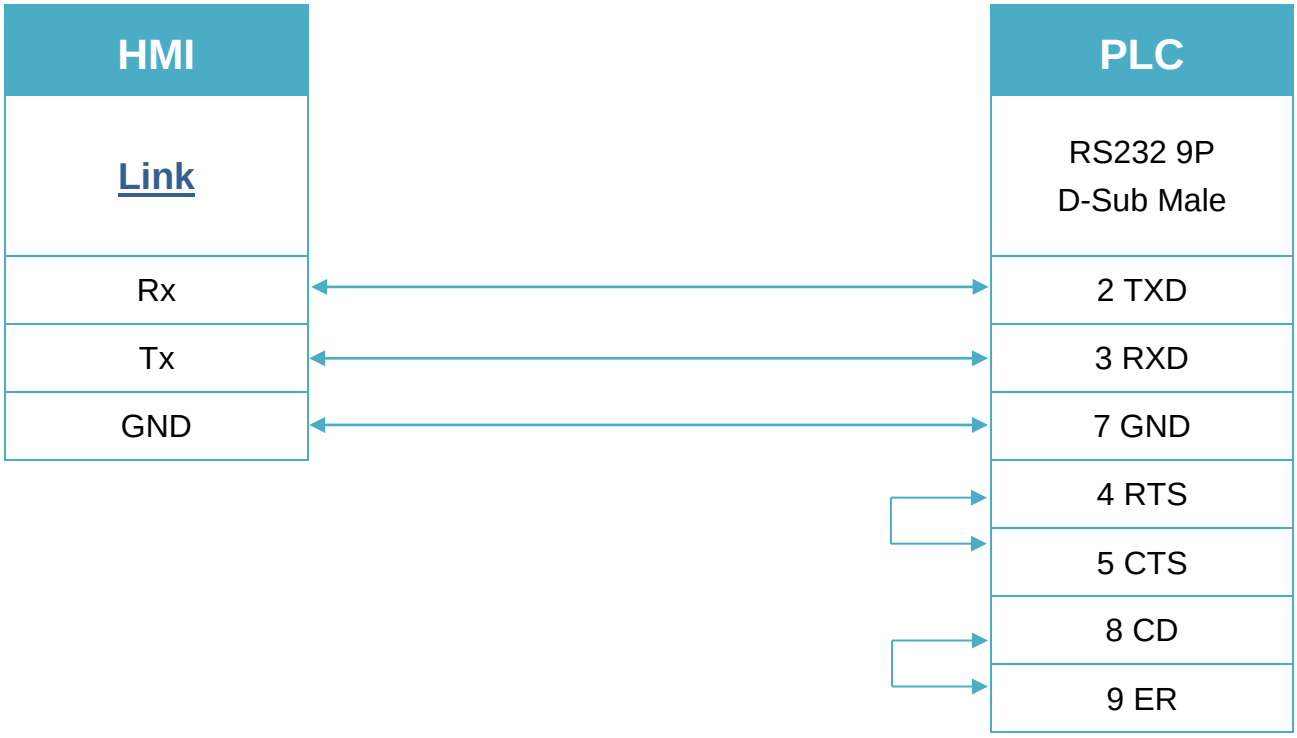


Diagram 4

RS-485 4W (FP1 CPU : 9P D-Sub to 8P MiniDIN)

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

The following is the view from the soldering point of a connector.

HMI		PLC
Link		RS485 4W 8P Hirose Female socket
Rx-	← →	2 TXDA
RX+	← →	5 TXDB
Tx-	← →	3 RXDA
Tx+	← →	6 RXDB
GND	← →	1 GND

Diagram 5

RS-485 4W (FP3 CPU : 9P D-Sub to 15P D-Sub)

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