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## MMI 8000 series and PLC connecting guide

Allen Bradley CompactLogix /FlexLogix.....	3
Allen Bradley EtherNet/IP CompactLogix.....	8
Allen-Bradley DF1 .....	11
Allen-Bradley EtherNet/IP (DF1) .....	13
DELTA DVP .....	16
FATEK FB Series.....	18
GE Fanuc SNP-X.....	21
IDEC .....	24
KEYENCE KV series.....	27
KEYENCE KV-1000 .....	29
KOYO DirectLogic.....	31
LS MASTER-K Cnet.....	35
LS MASTER-K300S CPU .....	37
LS XGB/XGT.....	39
LS XGB/XGT TCP/IP Series .....	41
LIYAN EX Series.....	43
Matsushita FP .....	45
Mitsubishi AJ71 .....	48
Mitsubishi FX0n/FX2 .....	50
Mitsubishi FX2n.....	52
Mitsubishi FX3U .....	54
MITSUBISHI FX232/485BD .....	56
MITSUBISHI Q02H .....	59
MITSUBISHI Q06H .....	61
MITSUBISHI QJ71 .....	63
MODBUS ASCII .....	67
MODBUS RTU .....	69
Modbus Server (Modbus RTU Slave) .....	72
Modbus TCP/IP.....	74
Modicon Twido .....	76
OMRON C/CQM1 Series .....	78
OMRON CJ1/CS1 .....	80
OMRON CJ1/CS1 Ethernet .....	82



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OMRON E5CN .....	85
SAIA PCD S-Bus mode .....	87
SAIA PCD PGU mode .....	89
SIEMENS S7/200 .....	91
SIEMENS S7/300 .....	93
Telemecanique UniTelWay .....	95
TOSHIBA T series .....	97
TOSHIBA VF-S11 .....	100
VIGOR .....	102
Yokogawa FA-M3 .....	104
Yokogawa FA-M3 (Ethernet) .....	110



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# Allen Bradley CompactLogix /FlexLogix

Allen-Bradley CompactLogix, FlexLogix CH0 DF1

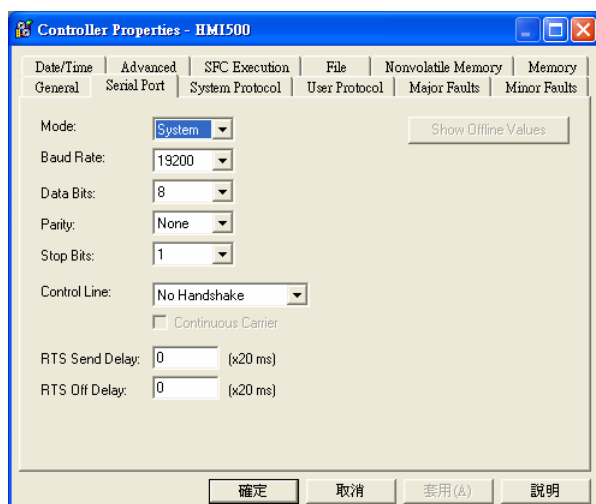
<http://www.ab.com>

## HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Allen-Bradley CompactLogix/FlexLogix		
Com port	RS232		
Baud rate	19200	9600, 19200, 38400	
Parity bit	None	Even, Odd, None	
Data Bits	8	8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	1-31	

## PLC Setting:

Communication mode	<b>DF1 Full Duplex protocol 19200, None, 8, 1 (default)</b> <b>Error Check: BCC, Station Address: 1</b>
--------------------	--





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## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	B_BOOL	ffddd(dd)	File no. ff: 3, 10~99 Element no. ddd: 0~255 Bit no. (dd): 0~15	Bit data file
B	N_BOOL	ffddd(dd)	File no. ff: 7, 10~99 Element no. ddd: 0~255 Bit no. (dd): 0~15	Integer data file bit level (N7, 10~255)
W	Bx_INT	fffddd	File no. fff: 3, 10~255 Element no. ddd: 0~255	Bit data file word level
DW	Tx.PRE	fffddd	File no. fff: 4, 10~255 Element no. ddd: 0~255	Timer Preset Value (T4, T10~255)
DW	Tx.ACC	fffddd	File no. fff: 4, 10~255 Element no. ddd: 0~255	Timer Accumulator Value (T4, T10~255)
DW	Cx.PRE	fffddd	File no. fff: 5, 10~255 Element no. ddd: 0~255	Counter Preset Value (C5, C10~255)
DW	Cx.ACC	fffddd	File no. fff: 5, 10~255 Element no. ddd: 0~255	Counter Accumulator Value (C5, C10~255)
F	F8_REAL	ddd	ddd:0~255	Floating point data file (F8)
DW	Nx_INT	Fffddd	File no. fff:0~255 Element no. ddd:0~255	Integer data file (N7, 10~255)

## Wiring diagram:

RS-232: ControlLogix, CompactLogix CPU CH0

**MT500 PLC[232]**  
9P D-SUB Female

**AB CPU CH0 RS-232**  
9P D-SUB Male

2 TX		2 RD
3 RX		3 TD
5 GND		5 GND

RS Logix 5000 setting

You can configure a mapping table to allow the controller to accept the PLC-2, 3, 5, or SLC/500 messages.

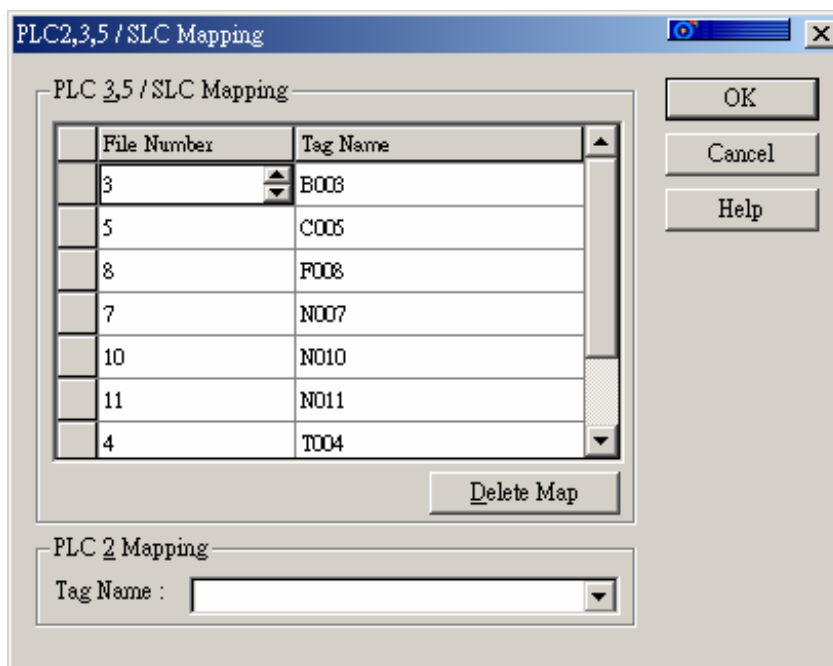
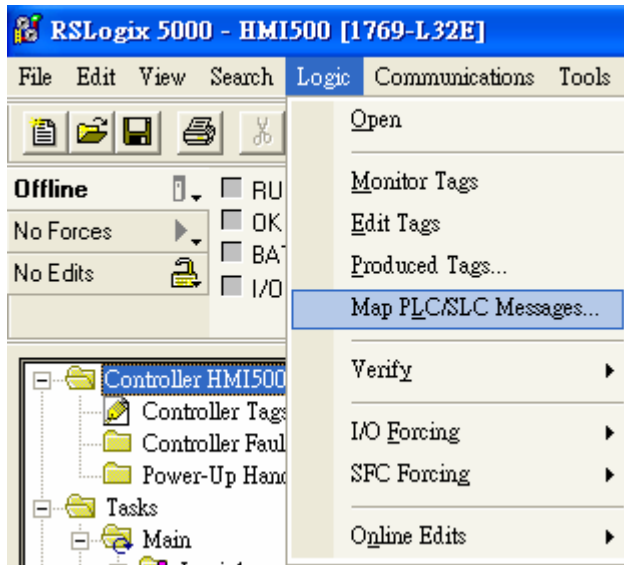
Configure Mapping for a PLC-3, PLC-5, or SLC/500 Processor

1. From the Logic menu, choose Map PLC Messages.
2. In the Mapping frame, enter the File Number and Tag Name to be mapped.
3. Click on OK to configure the mapping.



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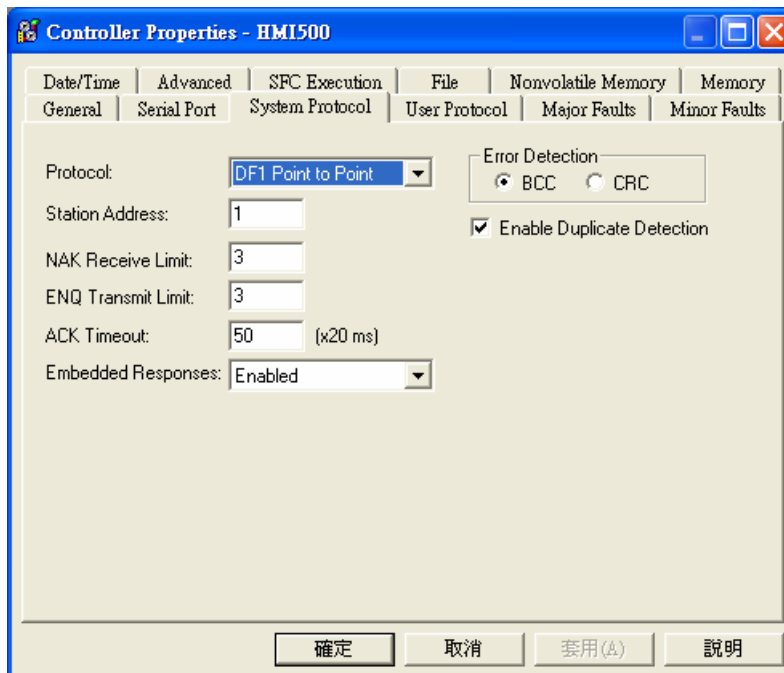




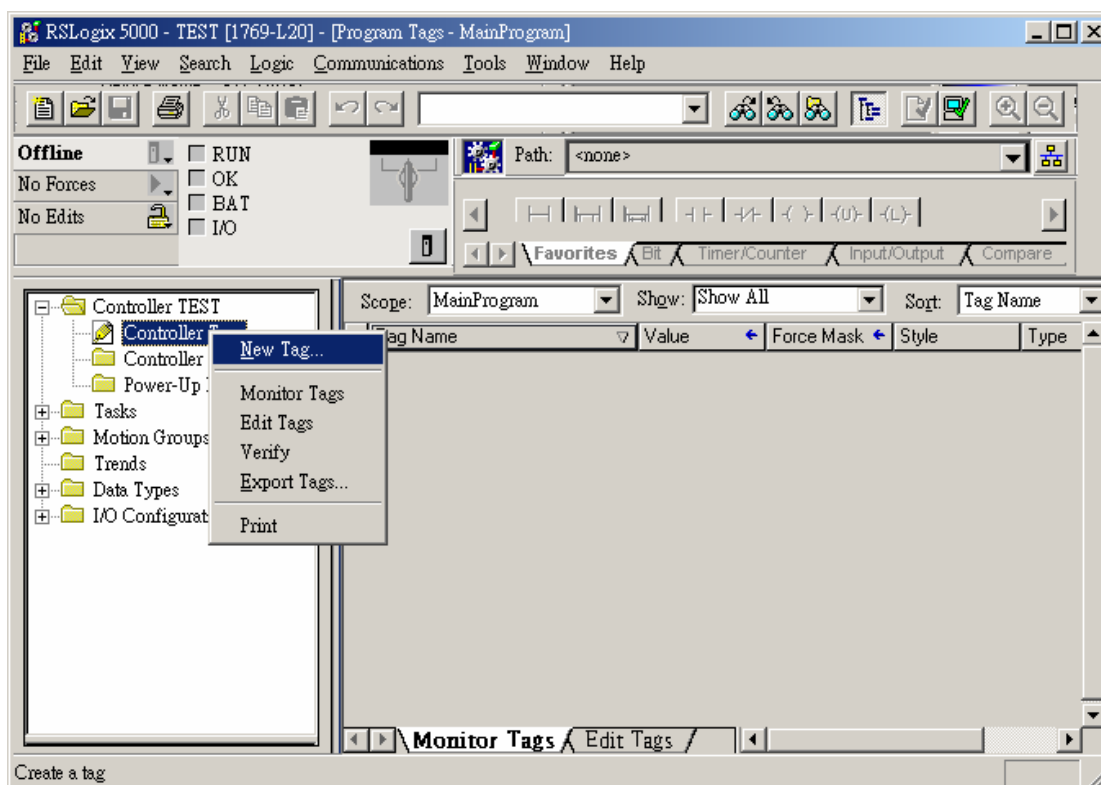
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ControlLogix, CompactLogix CPU CH0 setting:



Create the Tag:



**New Tag**

Name:  OK

Description:  Cancel

Tag Type: ☒ Base ☐ Alias ☐ Produced ☐ Consumed

Data Type:

Scope:

Style:

**Select Data Type**

Data Types:  OK

Array Dimensions

Dim 0	Dim 1	Dim 2
<input type="text" value="255"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Cancel Help



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# Allen Bradley EtherNet/IP CompactLogix

Allen-Bradley CompactLogix, FlexLogix Ethernet

<http://www.ab.com>

## HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Allen-Bradley EtherNet (CompactLogix)		
Com port	Ethernet		
Port no.	44818		
PLC Station No.	1		

## PLC Setting:

Communication mode	
--------------------	--

## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	Bx_BOOL	ffddd(dd)	File no. ff: 3, 10~99 Element no. ddd: 0~999 Bit no. (dd): 0~15	Bit data file
B	Nx_BOOL	ffddd(dd)	File no. ff: 7, 10~99 Element no. ddd: 0~999 Bit no. (dd): 0~15	Integer data file bit level (N7, 10~99)
W	Bx_INT	fffddd	File no. fff: 3, 10~255 Element no. ddd: 0~255	Bit data file word level
W	Nx_INT	fffddd	File no. fff:0~255 Element no. ddd:0~255	Integer data file (N7, 10~99)
F	F8_REAL	ddd	ddd:0~255	Floating point data file (F8)
F	Fx_REAL	fffddd	File no. fff:0~255 ddd:0~255	Floating point data file (F8)
DW	Tx.PRE	fffddd	File no. fff: 4, 10~255	Timer Preset Value (T4, T10~255)





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			Element no. ddd: 0~255	
DW	Tx.ACC	ffddddd	File no. fff: 4, 10~255 Element no. ddd: 0~255	Timer Accumulator Value (T4, T10~255)
DW	Cx.PRE	ffddddd	File no. fff: 5, 10~255 Element no. ddd: 0~255	Counter Preset Value (C5, C10~255)
DW	Cx.ACC	ffddddd	File no. fff: 5, 10~255 Element no. ddd: 0~255	Counter Accumulator Value (C5, C10~255)

## Wiring diagram:

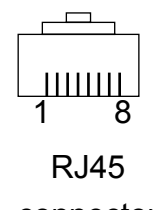
Ethernet:

**MT8000 Ethernet RJ45**

Wire color	
1 TX+	White/Orange
2 TX-	Orange
3 RX+	White/Green
4 BD4+	Blue
5 BD4-	White/Blue
6 RX-	Green
7 BD3+	White/Brown
8 BD3-	Brown

**Ethernet Hub or Switch RJ45**

1 RX+	
2 RX-	
3 TX+	
4 BD4+	
5 BD4-	
6 TX-	
7 BD3+	
8 BD3-	



Ethernet: Direct connect (crossover cable)

**MT8000 Ethernet RJ45**

Wire color	
1 TX+	White/Orange
2 TX-	Orange
3 RX+	White/Green
4 BD4+	Blue
5 BD4-	White/Blue
6 RX-	Green
7 BD3+	White/Brown
8 BD3-	Brown

**CPU Ethernet port RJ45**

3 RX+	
6 RX-	
1 TX+	
4 BD4+	
5 BD4-	
2 TX-	
7 BD3+	
8 BD3-	

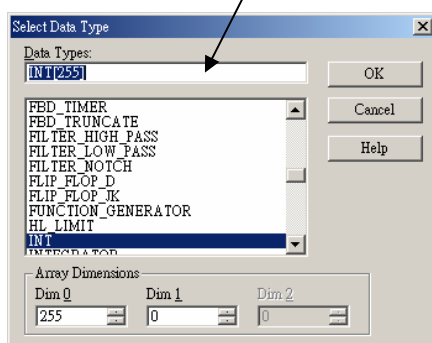
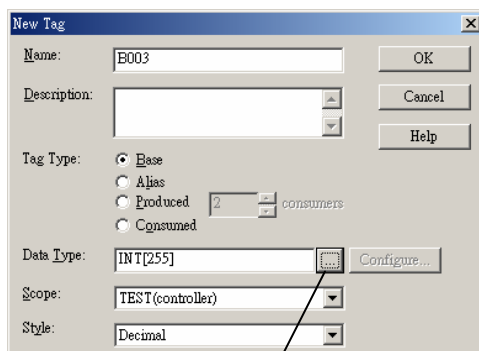
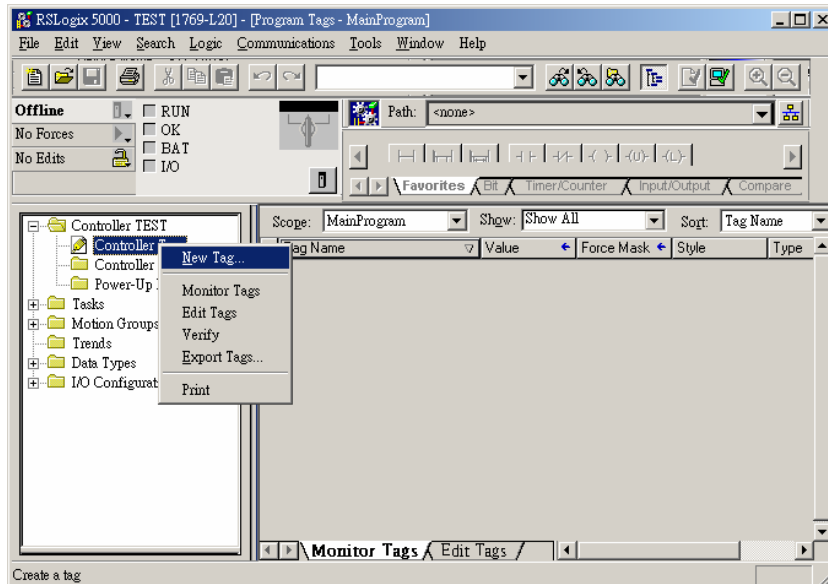
RSLogix 5000 setting

Create the Tag:



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## Allen-Bradley DF1

Allen-Bradley MicroLogix 1000, 1100, 1200, 1500, SLC 5/03, 5/04, 5/05

<http://www.ab.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	AB DF1		
Com port	RS232		
Baud rate	19200	9600, 19200, 38400	
Parity bit	None	Even, Odd, None	
Data Bits	8	8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	1-31	

### PLC Setting:

Communication mode	<b>DF1 Full Duplex protocol 19200, None, 8, 1 (default)</b> <b>Error Check: CRC</b>
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I1	ddd(dd)	ddd:0~254 (dd): 0~15	Input (I)
B	O0	ddd(dd)	ddd:0~254 (dd): 0~15	Output (O)
B	S_Bit	ddd(dd)	ddd:0~254 (dd): 0~15	Status (S) bit level
B	B3	ddd(dd)	ddd:0~254 (dd): 0~15	Bit data file (B3)
B	B10~13	ddd(dd)	ddd:0~254 (dd): 0~15	Bit data file (B10~13)
B	Bfn	fffddd(dd)	File no. fff: 3, 10~254 Element no. ddd: 0~254 Bit no. (dd): 0~15	Bit data file (B3, 10~254)
B	NfnBit	fffddd(dd)	File no. fff: 7, 10~254 Element no. ddd: 0~254 Bit no. (dd): 0~15	Integer data file bit level (N7, 10~254)
W	S	ddd	ddd:0~254	Status (S)
W	T4SV	ddd	ddd:0~254	Timer Preset Value (T4)
W	TfnSV	fffddd	File no. fff: 4, 10~254 Element no. ddd:0~254	Timer Preset Value
W	T4PV	ddd	ddd:0~254	Timer Accumulator Value (T4)

Bit/Word	Device Type	Format	Range	Memo
W	TfnPV	fffddd	File no. fff: 4, 10~254 Element no. ddd:0~254	Timer Accumulator Value
W	C5SV	ddd	ddd:0~254	Counter Preset Value (C5)
W	CfnSV	fffddd	File no. fff: 5, 10~254 Element no. ddd:0~254	Counter Preset Value
W	C5PV	ddd	ddd:0~254	Counter Accumulator Value (C5)
W	CfnPV	fffddd	File no. fff: 5, 10~254 Element no. ddd:0~254	Counter Accumulator Value
W	N7	ddd	ddd:0~254	Integer data file (N7)
W	N10~15	ddd	ddd:0~254	Integer data file (N10~15)
W	F8	ddd	ddd:0~254	Floating point data file (F8)
W	Nfn	fffddd	File no. fff:0~254 Element no. ddd:0~254	Integer data file (N7, 10~254)

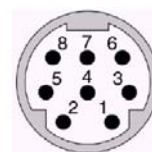
## Wiring diagram:

RS-232: MicroLogix 1000, 1100, 1200, 1500

MT8000 RS232  
9P D-SUB

MicroLogix RS232  
mini-DIN 8pin

COM1	COM2	COM3		
3 TX	4 TX	7 TX		4 RXD
2 RX	6 RX	8 RX		7 TXD
5 GND	5 GND	5 GND		8 GND



RS-232: SLC5/03, 04, 05 CH0

MT8000 RS232  
9P D-SUB Female

AB CPU CH0  
RS-232  
9P D-SUB Male

COM1	COM2	COM3		
3 TX	4 TX	7 TX		2 RD
2 RX	6 RX	8 RX		3 TD
5 GND	5 GND	5 GND		5 GND



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## Allen-Bradley EtherNet/IP (DF1)

Allen-Bradley MicroLogix 1100, SLC5/05 Ethernet port.

MicroLogix1000, 1200, 1500, SLC 5/03, 5/04 with 1761-NET-ENI

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Allen-Bradley EtherNet/IP (DF1)		
Com port	Ethernet		
TCP Port no.	44818		
HMI Station No.	0		
PLC Station No.	1		

### PLC Setting:

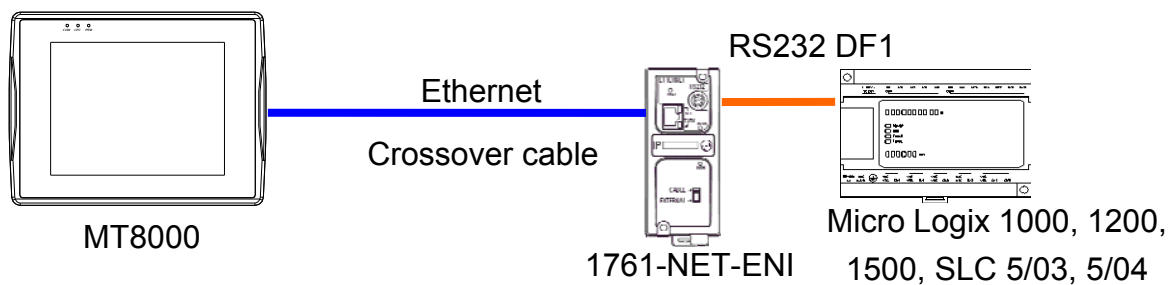
Communication mode	<b>Port Setting: 10/100 Mbps Full Duplex/Half Duplex</b>
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I1	ddd(dd)	ddd:0~254 (dd): 0~15	Input (I)
B	O0	ddd(dd)	ddd:0~254 (dd): 0~15	Output (O)
B	B3	ddd(dd)	ddd:0~254 (dd): 0~15	Bit data file (B3)
B	Bfn	fffddd(dd)	File no. fff: 3, 10~254 Element no. ddd: 0~254 Bit no. (dd): 0~15	Bit data file (B3, 10~254)
B	NfnBit	fffddd(dd)	File no. fff: 7, 10~254 Element no. ddd: 0~254 Bit no. (dd): 0~15	Integer data file bit level (N7, 10~254)
W	T4SV	ddd	ddd:0~254	Timer Preset Value (T4)
W	T4PV	ddd	ddd:0~254	Timer Accumulator Value (T4)
W	C5SV	ddd	ddd:0~254	Counter Preset Value (C5)
W	C5PV	ddd	ddd:0~254	Counter Accumulator Value (C5)
W	N7	ddd	ddd:0~254	Integer data file (N7)
W	Nfn	fffddd	File no. fff:0~254 Element no. ddd:0~254	Integer data file (N7, 10~254)
32bit Float	F8	ddd	ddd:0~254	Floating point data file (F8)
32bit Float	Ffn	fffddd	File no. fff:0~254 Element no. ddd:0~254	Floating point data file (F8, 10~254)

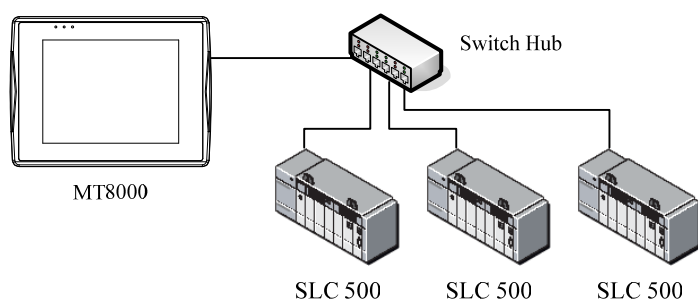
## Wiring diagram:

Ethernet: Direct connect (crossover cable)

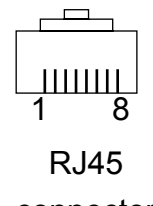


MT8000 Ethernet RJ45			Wire color	PLC RJ45		
1	TX+	White/Orange		3	RX+	
2	TX-	Orange		6	RX-	
3	RX+	White/Green		1	TX+	
4	BD4+	Blue		4	BD4+	
5	BD4-	White/Blue		5	BD4-	
6	RX-	Green		2	TX-	
7	BD3+	White/Brown		7	BD3+	
8	BD3-	Brown		8	BD3-	

Ethernet:



MT500 Ethernet RJ45			Wire color	Ethernet Hub or Switch RJ45		
1	TX+	White/Orange		1	RX+	
2	TX-	Orange		2	RX-	
3	RX+	White/Green		3	TX+	
4	BD4+	Blue		4	BD4+	
5	BD4-	White/Blue		5	BD4-	
6	RX-	Green		6	TX-	





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7	BD3+	White/Brown		7	BD3+
8	BD3-	Brown		8	BD3-



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## DELTA DVP

DELTA DVP series

<http://www.deltadriver.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	DELTA DVP		
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7, 8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	0-255	

### PLC Setting:

Communication mode	
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0 ~ 23417 (Octal)	Input
B	Y	ooo	0 ~ 23417 (Octal)	Output
B	M	dddd	0 ~ 9999	Auxiliary Relay
B	S	dddd	0 ~ 9999	Step Relay
B	T	dddd	0 ~ 9999	Timer
B	C	dddd	0 ~ 9999	Counter
B	TV	dddd	0 ~ 9999	Timer
W	CV	ddd	0 ~ 127	Counter
W	CV2	ddd	232 ~ 255	Double word counter
W	D	dddd	0 ~ 9999	Data Register



## Wiring diagram:

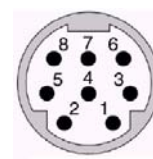
### 1. RS232: CPU port

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

DELTA DVP CPU  
port  
8p mini DIN

5	RXD
4	TXD
3	GND



### 2. RS485: CPU port

MT8000 RS232  
9P D-SUB

COM1	COM3
1 RX-	6 Data-
2 RX+	9 Data+

DELTA DVP  
RS-485 port

-
+



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## FATEK FB Series

FATEK FBs series, FB MC series, FB MA series need FB-DTBR converter.

<http://www.fatek.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	FATEK FB Series		
Com port	RS232	RS232/RS485/Ethernet	Must match the PLC's port setting.
Baud rate	9600		Must match the PLC's port setting.
Parity bit	Even		Must match the PLC's port setting.
Data Bits	7		
Stop Bits	1		
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	1	0-255	Must match the PLC's port setting.

### PLC Setting:

Communication mode	
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ddd	ddd : 0~9999	Input
B	Y	ddd	ddd : 0~9999	Output
B	M	ddd	ddd : 0~9999	Internal Relay
B	S	ddd	ddd : 0~9999	Step Relay
B	T	ddd	ddd : 0~9999	Timer
B	C	ddd	ddd : 0~9999	Counter
W	R	ddd	ddd : 0~9999	Data Register
W	D	ddd	ddd : 0~9999	Data Register
W	RT	ddd	ddd : 0~9999	Timer Register
W	RC	ddd	ddd : 0~9999	Counter Register
DW	DRT	ddd	ddd : 0~9999	Double word Timer Register
DW	DRC	ddd	ddd : 0~9999	Double word Counter Register

## Wiring diagram:

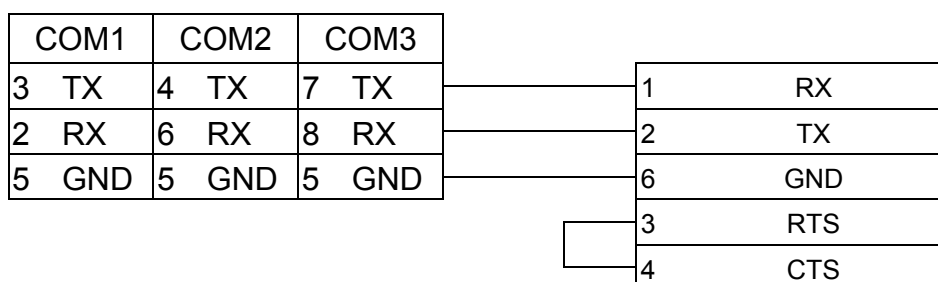
### 1. RS232: CPU port

**MT8000 RS232**

9P D-SUB Male

FB CPU port

15P D-SUB Male



### 2. RS485: CPU port

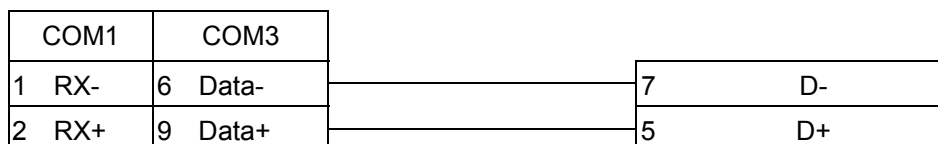
**MT8000**

**COM[RS-485] 2w**

9P D-SUB Female

FB CPU port

15P D-SUB Male



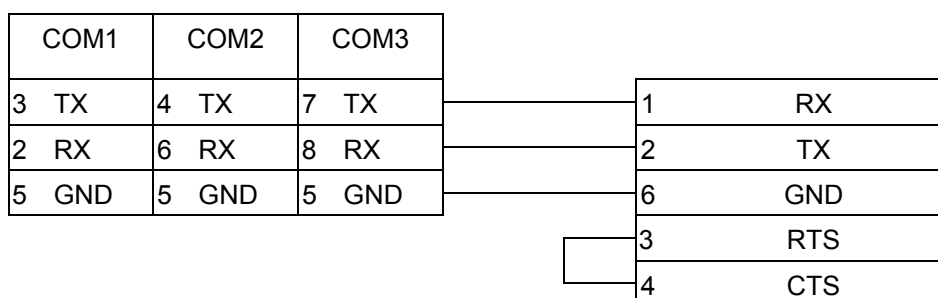
### 3. RS232: FB-DTBR/DTBR-E

**MT8000 RS232**

9P D-SUB Male

FB-DTBR/DTBR-E

15P D-SUB Male



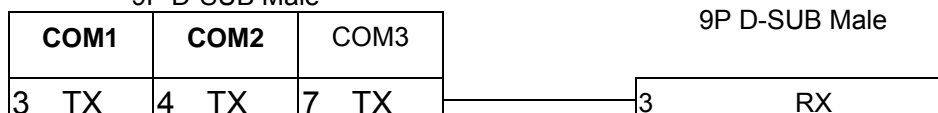
### 4. RS485: FB-DTBR/DTBR-E

**MT8000 RS232**

9P D-SUB Male

FB-DTBR/DTBR-E

9P D-SUB Male





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2	RX	6	RX	8	RX	4	TX
5	GND	5	GND	5	GND	1	GND

## 5. RS485: FB-DTBR/DTBR-E

**MT8000**  
**COM[RS-485] 2w**  
9P D-SUB Female

FB-DTBR/DTBR-E  
3P Terminal Block

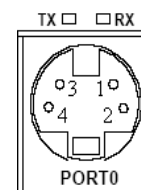
COM1	COM3		
1	RX-	6	Data-
2	RX+	9	Data+

## 6. RS232: FBs Port0

**MT8000 RS232**  
9P D-SUB Male

FB-DTBR/DTBR-E  
4P Mini-Din Male

COM1	COM2	COM3	
3	TX	4	TX
2	RX	6	RX
5	GND	5	GND



4P Mini-Din  
Female



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## GE Fanuc SNP-X

GE Fanuc 90 & VersaMax series PLC

<http://www.ge.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	GE Fanuc SNP-X		
Com port	RS485 4w	RS232/RS485	
Baud rate	19200	9600,19200,38400,57600,115200	Must same as the PLC setting
Parity bit	Odd	Even, Odd, None	Must same as the PLC setting
Data Bits	8	7,8	Must set as 8 to this protocol
Stop Bits	1	1, 2	Must same as the PLC setting
HMI Station No.	0	0-255	Does not apply to this protocol
PLC Station No.	0	0-255	Does not apply to this protocol

### PLC Setting:

Refer to related PLC manual

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I	ddd	1-1000	Input relay
B	Q	ddd	1-1000	Output relay
B	M	ddd	1-1000	Auxiliary relay
B	G	ddd	1-7680	
B	T	ddd	1-256	
W	AI	ddd	1-1000	Analog input register
W	AQ	ddd	1-1000	Analog output register
W	R	ddd	1-32640	Data register



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[www.kepfrance.fr](http://www.kepfrance.fr)

B	SA	ddd	1-1281	
B	SB	ddd	1-1281	
B	SC	ddd	1-1281	
B	S	ddd	1-1281	

## Wiring diagram:

### CPU port(90-30/VersaMax)

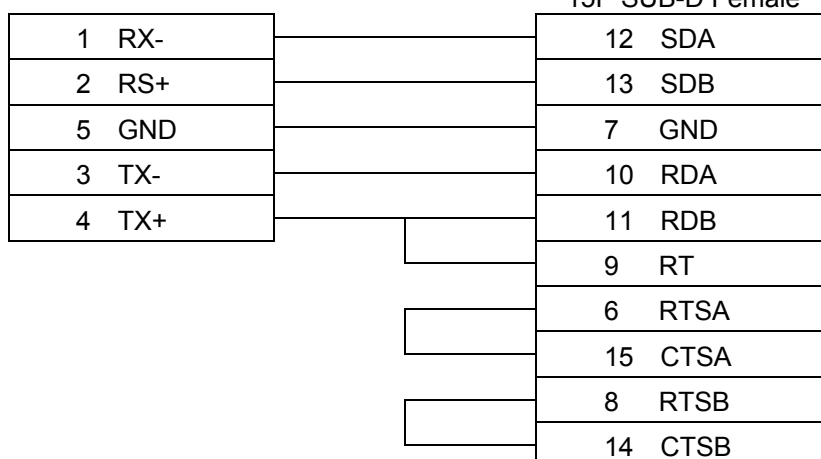
#### MT8000 COM1[485]

9P D-SUB

#### 90-30/VersaMax

#### RS485 port

15P SUB-D Female



### CPU port(90-30 series CPU351/352/363/364)

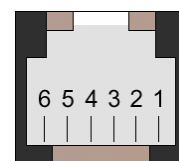
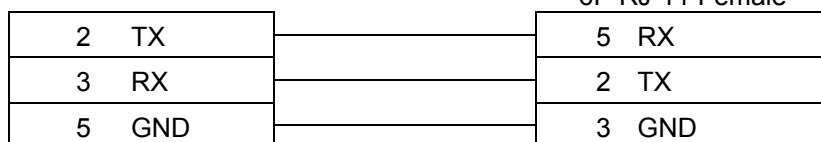
#### MT8000 PLC[232]

9P D-SUB Female

#### 90-30/90-70 series

#### RS232 port

6P RJ-11 Female



6P RJ-11 Female

#### MT8000 RS232

9P D-SUB

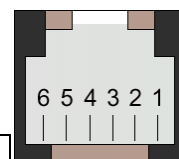
COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

#### VersaMax series

#### RS232 port

9P SUB-D Female

3 RX
2 TX
5 GND



6P RJ-11  
Female



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

# CPU port(VersaMax series CPU001/002/005/E05)

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

VersaMax series  
RS232 port  
9P SUB-D Female

3 RX
2 TX
5 GND



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[www.kepfrance.fr](http://www.kepfrance.fr)

## IDEC

IDEC Micro3, Micro3C, MicroSmart, OpenNet Controller series

<http://www.idec.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	IDEC Micro		Support Extend address mode
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7, 8	
Stop Bits	1	1	
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	255 (for 1:1 connect)	0-255	255 or same as the PLC setting

Online Simulator	YES	
Extend address mode	YES	Don't set the PLC Station No.= 255

### PLC Setting:

Communication mode	<b>9600,E,7,1(default), Use Computer Link Protocol</b>
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ddd(o)	ddd=0~2047, (o)=0~7	Input(I)
B	Y	ddd(o)	ddd=0~2047, (o)=0~7	Output(Q)
B	M	ddd(o)	ddd=0~2047, (o)=0~7	Internal Relay(M)
W	RT	ddd	ddd=0~9999	Timer(T)





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[www.kepfrance.fr](http://www.kepfrance.fr)

W	RC	ddd	ddd=0~9999	Counter(C)
W	D	ddd	ddd=0~9999	Data Register(D)

## Wiring diagram:

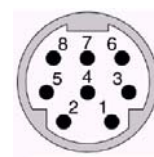
RS232: Micro3C, MicroSmart, OpenNet Controller CPU Ladder Port

MT8000 RS232

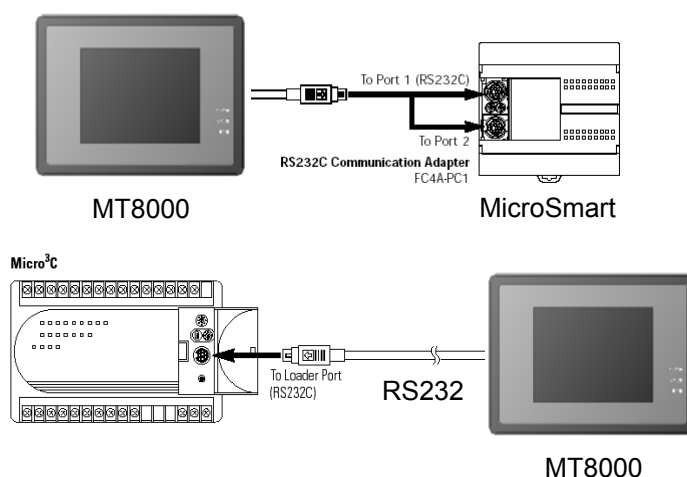
CPU port 1 or port2 RS-232

8P mini DIN Male

COM1	COM2	COM3	
3 TX	4 TX	7 TX	4 RXD
2 RX	6 RX	8 RX	3 TXD
5 GND	5 GND	5 GND	7 GND



8Pin mini DIN Female Pin



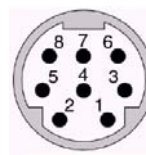
RS485: Micro3 CPU Port, MicroSmart with FC4A-PC2 RS485 Communication Adapter

MT8000 RS-485

CPU Port RS-485

8P mini DIN Male

COM1	COM3	
1 RX-	6 Data-	2 RXD-
2 RX+	9 Data+	1 RXD+
5 GND	5 GND	7 GND



8Pin mini DIN Female Pin

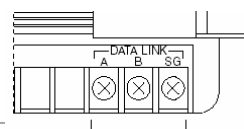
RS485: Micro3C, OpenNet Controller Data Link Terminals,

MicroSmart with FC4A-PC3 RS485 Communication Adapter

MT8000 RS-485

Data Link Terminals

9P D-SUB Female





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COM1		COM3			
1	RX-	6	Data-	A	RXD-
2	RX+	9	Data+	B	RXD+
5	GND	5	GND	SG	GND



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

## KEYENCE KV series

KEYENCE KV series, KV10~80

<http://www.keyence.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	KEYENCE KV-16		
Com port	RS232	RS232	Must match the PLC's port setting.
Baud rate	9600		Must match the PLC's port setting.
Parity bit	Even		Must match the PLC's port setting.
Data Bits	8		
Stop Bits	1		
PLC Station No.	1		Must match the PLC's port setting.

### PLC Setting:

Communication mode	None
--------------------	------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	RLY	ddd(h)0	0~19999	
B	MR	ddd(h)	0~19999	
B	LR	ddd(h)	0~19999	
B	CR	ddd(h)	0~19999	
B	DM_Bit	ddd(h)	0~19999	
W	DM	ddd	0-1999	
W	TM	ddd	0-99	
W	CM	ddd	0~65535	
W	EM	ddd	0~65535	
W	T	ddd	0-999	
W	Timer_Curr	ddd	0-999	Timer_Current
W	Timer_Preset	ddd	0-999	
W	C	ddd	0-999	
W	Counter_Curr	ddd	0-999	Counter_Current



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W	Counter_Preset	ddd	0-999	
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Precaution:

If you use the Relay(bit) register, Please place zero behind address. For example, If you want to read Relay(bit)100, you just set the address as "1000".

## Wiring diagram:

RS232: CPU port

MT8000 RS-232 9P D-SUB

KEYENCE PLC

OP-26486

COM1	COM2	COM3		
3 TX	4 TX	7 TX		2 RXD
2 RX	6 RX	8 RX		3 TXD
5 GND	5 GND	5 GND		5 GND



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

# KEYENCE KV-1000

<http://www.keyence.com/>

## HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	KEYENCE KV-1000		
Com port	RS232	RS232	Must match the PLC's port setting.
Baud rate	9600		Must match the PLC's port setting.
Parity bit	Even		Must match the PLC's port setting.
Data Bits	8		
Stop Bits	1		
PLC Station No.	0		Must match the PLC's port setting.

## PLC Setting:

Communication mode	None
--------------------	------

## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	RLY	ddd(h)0	0~19999	
B	MR	ddd(h)	0~19999	
B	LR	ddd(h)	0~19999	
B	CR	ddd(h)	0~19999	
B	DM_Bit	ddd(h)	0~19999	
W	DM	ddd	0-1999	
W	TM	ddd	0-99	
W	CM	ddd	0~65535	
W	EM	ddd	0~65535	
W	T	ddd	0-999	
W	Timer_Curr	ddd	0-999	Timer_Current
W	Timer_Preset	ddd	0-999	
W	C	ddd	0-999	
W	Counter_Curr	ddd	0-999	Counter_Current
W	Counter_Preset	ddd	0-999	



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[www.kepfrance.fr](http://www.kepfrance.fr)

**Precaution:**

If you use the Relay(bit) register, Please place zero behind address. For example, If you want to read Relay(bit)100, you just set the address as "1000".

## Wiring diagram:

RS232: CPU port

MT8000 RS-232 9P D-SUB

KEYENCE PLC

OP-26486

COM1	COM2	COM3		
3 TX	4 TX	7 TX	—	2 RXD
2 RX	6 RX	8 RX	—	3 TXD
5 GND	5 GND	5 GND	—	5 GND



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

## KOYO DirectLogic

KOYO DirectLogic series PLC DL05, DL06, DL105, DL205, DL305 and DL405 series

<http://www.automationdirect.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	KOYO DIRECT		
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200, 38400	
Parity bit	Odd	Even, Odd, None	
Data Bits	8	7, 8	
Stop Bits	1	1	
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	1	1-90	

### PLC Setting:

	<ol style="list-style-type: none"> <li>1. The PLC must not have a password.</li> <li>2. PLC must be set for Full Duplex operation.</li> <li>3. PLC must be set for No Hardware Handshaking.</li> <li>4. The PLC must be set to use the 'K' Sequence Protocol.</li> <li>5. Set the mode switch to the TERM mode</li> <li>6. When using the D4-440 CPU, you must set the station number to 1.</li> </ol>
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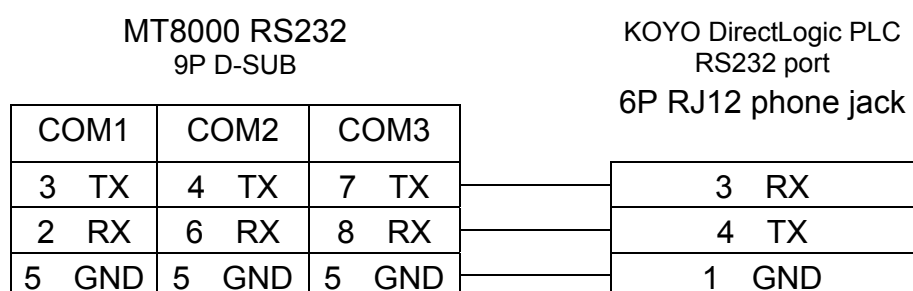
### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0 ~ 77777	Input Bits
B	Y	ooo	0 ~ 77777	Output Bits
B	C	ooo	0 ~ 77777	Control Relays
B	T	ooo	0 ~ 77777	Timer Status Bits

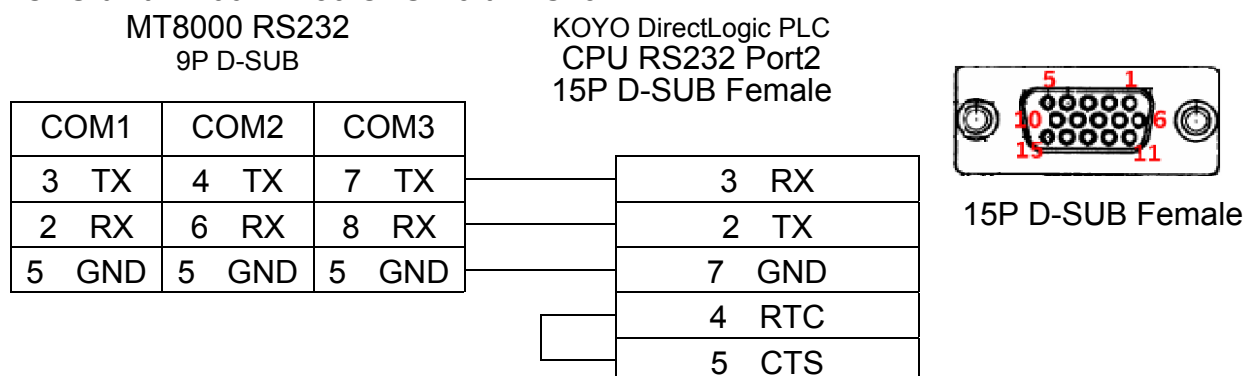
B	CT	ooo	0 ~ 77777	Counter Status Bits
W	V	ooo	0 ~ 77777	V Memory

## Wiring diagram:

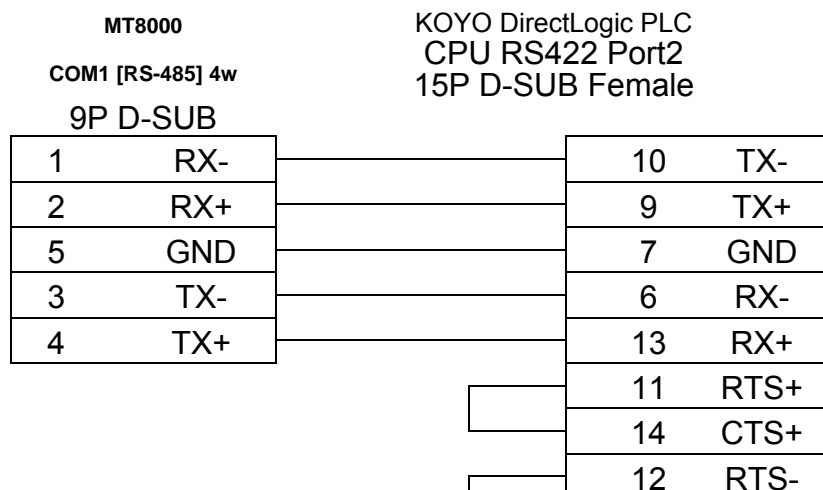
### 1. CPU unit: DL05/DL06/DL105/DL230/DL240/DL250/DL350/DL450 RS232 port



### 2. CPU unit: DL06/DL250 CPU Port2 RS232



### 3. CPU unit: DL06/DL250 CPU Port2 RS422





15	CTS-
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Note: DL06/DL250 CPU Port2 include RS232 and RS422

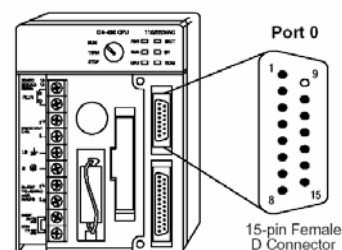
4. CPU unit: DL430/DL440/DL450 CPU unit Port0 RS232

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC  
DL405 CPU RS232 Port0  
15P D-SUB Female

3	RX
2	TX
13	GND
1	YOP
7	CTS
2	YOM
4	ONLINE
14	GND



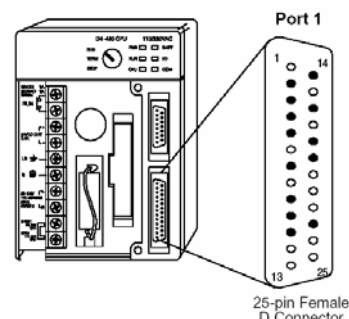
5. CPU unit: DL430/DL440/DL450 CPU unit Port1 & DL350 CPU unit Port2 RS232

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

KOYO DirectLogic PLC  
DL305/405 CPU RS232 Port  
25P D-SUB Female

3	RX
2	TX
7	GND
4	RTC
5	CTS



6. CPU unit: DL430/DL440/DL450 CPU unit Port1 & DL350 CPU unit Port2 RS422

MT8000

COM1[RS-485]4w  
9P D-SUB

1	RX-
2	RX+
5	GND
3	TX-
4	TX+

KOYO DirectLogic PLC  
DL305/405 CPU RS422 Port  
25P D-SUB Female

16	TX-
14	TX+
7	GND
10	RX-
9	RX+
19	RTS+
11	CTS+
12	RTS-



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[www.kepfrance.fr](http://www.kepfrance.fr)

	23	CTS-
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7. CPU unit: DL450 CPU unit Port3 RS422

MT8000  
COM1[RS-485]4w  
9P D-SUB

KOYO DirectLogic PLC  
DL405 CPU RS422 Port3  
25P D-SUB Female

1	RX-		13	TX-
2	RX+		12	TX+
5	GND		7	GND
3	TX-		25	RX-
4	TX+		24	RX+

8. Communication unit: DL205 series D2-DCM and DL405 series D4-DCM RS232

MT8000 RS232  
9P D-SUB

KOYO DirectLogic PLC  
DL205/405 DCM RS232 Port  
25P D-SUB Female

COM1	COM2	COM3		
3 TX	4 TX	7 TX		3 RX
2 RX	6 RX	8 RX		2 TX
5 GND	5 GND	5 GND		7 GND
				4 RTC
				5 CTS



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[www.kepfrance.fr](http://www.kepfrance.fr)

## LS MASTER-K Cnet

LS MASTER-K series: K80S, K200S, K300S, K1000S

<http://www.lgis.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	LS MASTER-K Cnet		
Com port	RS232	RS232/RS485	Must match the PLC's port setting.
Baud rate	38400	9600, 19200, 38400	Must match the PLC's port setting.
Parity bit	None	Even, Odd, None	Must match the PLC's port setting.
Data Bits	8	8	Must match the PLC's port setting.
Stop Bits	1	1	Must match the PLC's port setting.
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	0	0-31	Must match the PLC's port setting.

Online Simulator	YES	
Extend address mode		

### PLC Setting:

Communication mode	<b>38400, None, 8, 1</b>
--------------------	--------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	P	ddd(h)	0~255F	I/O Relay (P)
B	K	ddd(h)	0~255F	Keep Relay (K)
B	M	ddd(h)	0~255F	Auxiliary Relay (M)
B	L	ddd(h)	0~255F	Link Relay (L)
B	F	ddd(h)	0~255F	Special Relay (F)
W	TV	ddd	0~255	Timer Present Value



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[www.kepfrance.fr](http://www.kepfrance.fr)

W	CV	ddd	0~255	Counter Present Value
W	D	dddd	0~9999	Data Register (D)

d: Decimal h: Hexadecimal

## Wiring diagram:

MT8000 RS232 9P D-SUB			CPU port Cnet I/F RS232 9P D-SUB Female	
COM1	COM2	COM3		
3 TX	4 TX	7 TX		4 RX
2 RX	6 RX	8 RX		7 TX
5 GND	5 GND	5 GND		5 GND

If connect with Cnet module please refer Cnet module's document.



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

## LS MASTER-K300S CPU

LS MASTER-K series: K80S, K200S, K300S, K1000S

<http://www.lgis.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	LG MASTER-K300S		
Com port	RS232	RS232/RS485	Must match the PLC's port setting.
Baud rate	38400	9600, 19200, 38400	Must match the PLC's port setting.
Parity bit	None	Even, Odd, None	Must match the PLC's port setting.
Data Bits	8	8	Must match the PLC's port setting.
Stop Bits	1	1	Must match the PLC's port setting.
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	0	0-31	Must match the PLC's port setting.

Online Simulator	YES	
Extend address mode		

### PLC Setting:

Communication mode	<b>38400, None, 8, 1</b>
--------------------	--------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	P	ddd(h)	0~255F	I/O Relay (P)
B	K	ddd(h)	0~255F	Keep Relay (K)
B	M	ddd(h)	0~255F	Auxiliary Relay (M)
B	L	ddd(h)	0~255F	Link Relay (L)
B	F	ddd(h)	0~255F	Special Relay (F)
W	TV	ddd	0~255	Timer Present Value



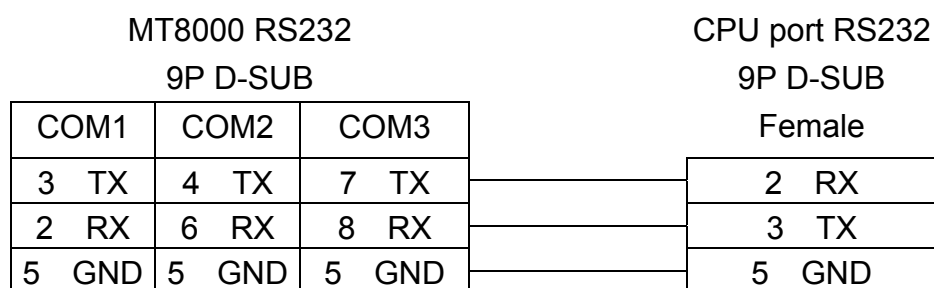
KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

W	CV	ddd	0~255	Counter Present Value
W	D	dddd	0~9999	Data Register (D)

d: Decimal h: Hexadecimal

## Wiring diagram:





KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

## LS XGB/XGT

LS XGB/XGT Series

<http://www.lqis.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	LS XGB/XGT		
Com port	RS232	RS232/RS485	Must match the PLC's port setting.
Baud rate	115200	9600, 19200, 38400	Must match the PLC's port setting.
Parity bit	None	Even, Odd, None	Must match the PLC's port setting.
Data Bits	8	8	Must match the PLC's port setting.
Stop Bits	1	1	Must match the PLC's port setting.
PLC Station No.	1	0-31	Must match the PLC's port setting.

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	P	ddd(h)	0~127F	I/O device_2,048 points
B	M	ddd(h)	0~255F	Internal device_4,096 points
B	L	dddd(h)	0~1279F	Communication device_20,480 points
B	K	dddd(h)	0~2559F	Preservation device_4,096 points
B	F	ddd(h)	0~255F	Special device_4,096 point
B	T	ddd	0~255	Timer device_256 point
B	C	ddd	0~255	Counter device_256 point
B	S	ddd(dd)	0~127(99)	Relay for step control
B	D_Bit	dddd(h)	0~5120F	Data register_Bit expression (D0000.0)
W	D	dddd	0~5119	Data register_5120 words
W	U	d(dd)	0~7(00~31)	Analog data register_256 words
W	N	dddd	0~3935	Communication data register_3,936 words
W	Z	ddd	0~127	Index register_128 words
W	T	ddd	0~255	Timer current value register_256 words
W	C	ddd	0~255	Counter current value register_256 words



KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

d:Decimal h:Hexadecimal

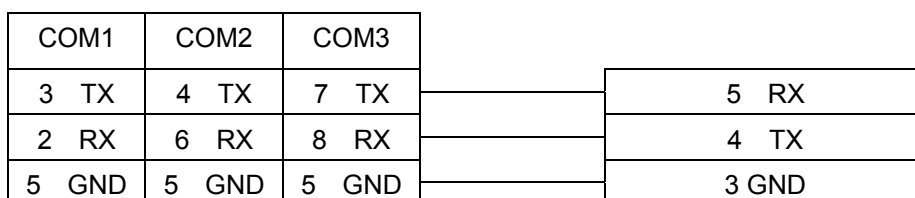
## Wiring diagram:

MT8000 RS232

XGB main unit

9P D-SUB

RS232 9P D-SUB Female







KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

## LS XGB/XGT TCP/IP Series

LS XGB/XGT TCP/IP Series

<http://www.lgis.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	XBL-EMTA		
Com port	Ethernet		
PLC Station no.	0	0~255	
TCP/IP port	2004		

### PLC Setting:

Communication mode	Fenet Potocol
--------------------	---------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	P	ddd(h)	0~127F	I/O device_2,048 points
B	M	ddd(h)	0~255F	Internal device_4,096 points
B	L	dddd(h)	0~1279F	Communication device_20,480 points
B	K	dddd(h)	0~2559F	Preservation device_4,096 points
B	F	ddd(h)	0~255F	Special device_4,096 point
B	T	ddd	0~255	Timer device_256 point
B	C	ddd	0~255	Counter device_256 point
B	S	ddd(dd)	0~127(99)	Relay for step control
B	D_Bit	dddd(h)	0~5120F	Data register_Bit expression (D0000.0)
W	D	dddd	0~5119	Data register_5120 words
W	U	d(dd)	0~7(0~31)	Analog data register_256 words
W	N	dddd	0~3935	Communication data register_3,936 words
W	Z	ddd	0~127	Index register_128 words
W	T	ddd	0~255	Timer current value register_256 words
W	C	ddd	0~255	Counter current value register_256 words

d:(Decimal) h:(Hexadecimal)

## Wiring diagram:

Ethernet:

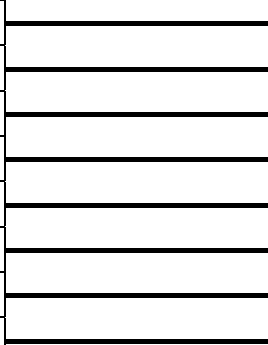
MT8000 Ethernet Wire color

Ethernet Hub or Switch

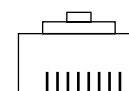
RJ45

RJ45

1	TX+	White/Orange
2	TX-	Orange
3	RX+	White/Green
4	BD4+	Blue
5	BD4-	White/Blue
6	RX-	Green
7	BD3+	White/Brown
8	BD3-	Brown



1	RX+
2	RX-
3	TX+
4	BD4+
5	BD4-
6	TX-
7	BD3+
8	BD3-



1 8  
RJ45

Ethernet: Direct connect (crossover cable)

MT8000

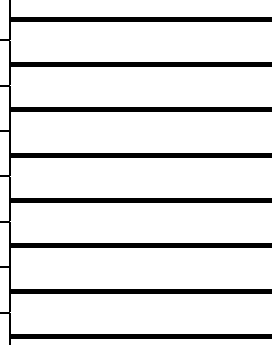
Wire color

TCP Device

Ethernet RJ45

RJ45

1	TX+	White/Orange
2	TX-	Orange
3	RX+	White/Green
4	BD4+	Blue
5	BD4-	White/Blue
6	RX-	Green
7	BD3+	White/Brown
8	BD3-	Brown



3	RX+
6	RX-
1	TX+
4	BD4+
5	BD4-
2	TX-
7	BD3+
8	BD3-



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[www.kepfrance.fr](http://www.kepfrance.fr)

## LIYAN EX Series

LIYAN PLC Ex/Ex1s/Ex1n/Ex2n series

<http://www.liyanplc.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Mitsubishi FX0n/FX2		
Com port	RS232	RS232	Must match the PLC's port setting.
Baud rate	9600	9600~115200	Must match the PLC's port setting.
Parity bit	Even	Even, Odd, None	Must match the PLC's port setting.
Data Bits	7	7,8	Must match the PLC's port setting.
Stop Bits	1	1,2	Must match the PLC's port setting.
HMI Station No.	0	0-255	Does not apply to this protocol.
PLC Station No.	0	0-255	Must match the PLC's port setting.

### PLC Setting:

Communication mode	<b>9600,7,1,Even</b>
--------------------	----------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0-377	Input relay
B	Y	ooo	0-377	Output relay
B	M	ddd	0-9999	Internal bit memory
B	T	ddd	0-255	Timer bit memory
B	C	ddd	0-255	Counter bit memory
W	TV	ddd	0-255	Timer register
W	CV	ddd	0~199	Counter Register
W	D	ddd	0-9999	data Register
W	CV2	ddd	200-255	Counter Register(Double word)
W	SD	ddd	8000-9999	Special data register



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## Wiring diagram:

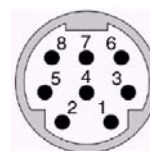
Ex,Ex1s,Ex1n,Ex2n series RS232

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

LIYAN Ex series  
CPU RS232 Port  
8P miniDin Female

4	RXD
7	TXD
8	GND



8Pin miniDin  
Female



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## Matsushita FP

NAIS(Matsushita) FP series include FP0, FP1, FP2, FP2SH, FP10SH and FP3

<http://www.aromat.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Matsushita FP		
Com port	RS232	RS232/RS485	Must match the PLC's port setting.
Baud rate	9600	9600, 19200, 38400, 57600, 115200	Must match the PLC's port setting.
Parity bit	Odd	Even, Odd, None	Must match the PLC's port setting.
Data Bits	8	7 or 8	Must match the PLC's port setting.
Stop Bits	1	1 or 2	Must match the PLC's port setting.
HMI Station No.	0	0-255	Does not apply to this protocol.
PLC Station No.	1	0-255	Must match the PLC's port setting. <b>FP3 must set 0.</b>

### PLC Setting:

Communication mode	<b>9600,O,8,1(default)</b>
--------------------	----------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	dddd(h)	0~9999F	Input(X)
B	Y	dddd(h)	0~9999F	Output(Y)
B	R	dddd(h)	0~9999F	Internal Relay(R)
B	L	dddd(h)	0~9999F	Link Relay(L)
B	T	ddd	0~9999	Timer(T)
B	C	ddd	0~9999	Counter(C)
W	SV	ddd	0~9999	Timer/Counter set value(SV)
W	EV	ddd	0~9999	Timer/Counter elapse value(EV)

W	DT	ddd	0~32767	Data Register(DT)
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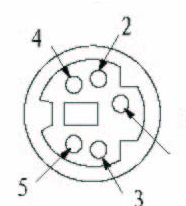
## Wiring diagram:

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

FP0, FP2, FP2SH, FPM  
CPU Tool port  
5P mini DIN RS-232

3 RXD
2 TXD
1 GND



Mini Din 5 Pin  
Female

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

FP0 CPU RS232  
3P terminal

R
S
G

MT8000 RS232  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

FP1, FP2, FP2SH, FP10SH CPU  
9p D-SUB Male RS232

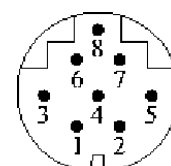
3 RXD
2 TXD
7 GND
4 RTS
5 CTS
8 CD
9 ER

MT8000  
COM1[RS-485]4w  
9P D-SUB

1 RX-
2 RX+
3 TX-
4 TX+
5 GND

FP1 CPU RS422 port  
Hirose 8Pin Port

2 TXDA
5 TXDB
3 RXDA
6 RXDB
1 GND



Hirose 8Pin Port

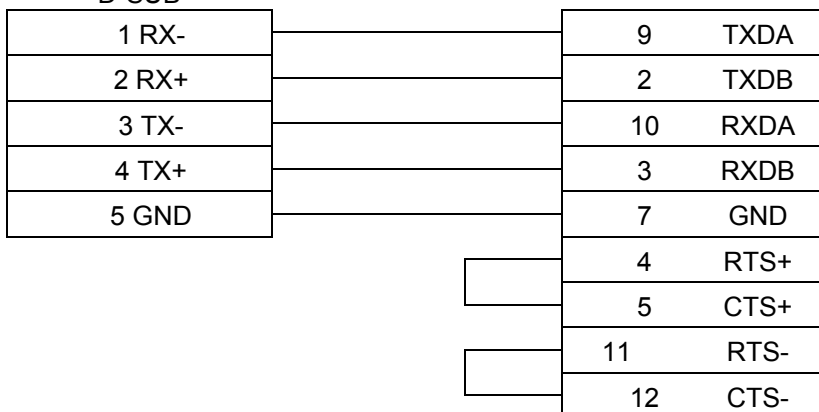


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[www.kepfrance.fr](http://www.kepfrance.fr)

MT8000  
COM1[RS-485]4w 9P  
D-SUB

FP3 CPU RS422 port  
15P D-SUB Female





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[www.kepfrance.fr](http://www.kepfrance.fr)

## Mitsubishi AJ71

Mitsubishi A series PLC with AJ71C24 communication module using the Computer Link protocol.

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MITSUBISHI AJ71	MITSUBISHI AJ71(AnA/AnU CPU) MITSUBISHI AJ71[format4] pds driver	
Com port	RS485 4W	RS485 4W, RS232	
Baud rate	19200	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	8	8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	0		

### PLC Setting:

Communication mode	Computer Link protocol 9600, Even, 8, 1 (default)
Mode Setting Switch	<b>Format 1</b>
Parity Check	<b>Enable</b>
Sum Check	<b>Enable</b>

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	hhh	hhh: 0~270F (hex-decimal)	Input Bits
B	Y	hhh	hhh: 0~270F (hex-decimal)	Output Bits
B	M	dddd	dddd:0~9999	Internal Relays





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W	TV	ddd	ddd:0~255	Timer Preset Value
W	CV	ddd	ddd:0~255	Counter Preset Value
W	D	dddd	ddd:0~9999	Data Registers

## Wiring diagram:

RS-485 4W:

**MT800 Com1**

**AJ71C24**

**RS-485]**

**RS-422**

9P D-SUB

1	RX-		SDB
2	RX+		SDA
3	TX-		RDB
4	TX+		RDA
5	GND		GND

RS-232: A1SJ71UC24-R2

**MT8000 RS232**

**RS232 port**

9P D-SUB

9P D-SUB Female

COM1	COM2	COM3		
3 TX	4 TX	7 TX		2 RXD
2 RX	6 RX	8 RX		3 TXD
5 GND	5 GND	5 GND		5 GND
				1 DCD
				4 DTR
				6 DSR
				7 RTS
				8 CTS

## Mitsubishi FX0n/FX2

Mitsubishi FX0s/FX0n/FX1s/FX1n/FX2 PLC

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Mitsubishi FX0n/FX2	Mitsubishi FX0n/FX2	
Com port	RS485	RS232/RS485	
Baud rate	9600	9600/19200/38400/57600/115200	must same as the PLC setting
Parity bit	Even	Even, Odd, None	must same as the PLC setting
Data Bits	7	7,8	must same as the PLC setting
Stop Bits	1	1,2	must same as the PLC setting
HMI Station No.	0	0-255	Does not apply to this protocol
PLC Station No.	0	0-255	must same as the PLC setting

### PLC Setting:

Communication mode	9600,Even,7,1
--------------------	---------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0-377	Input Relay
B	Y	ooo	0-377	Output Relay
B	M	ddd	0-9999	Auxiliary Relay

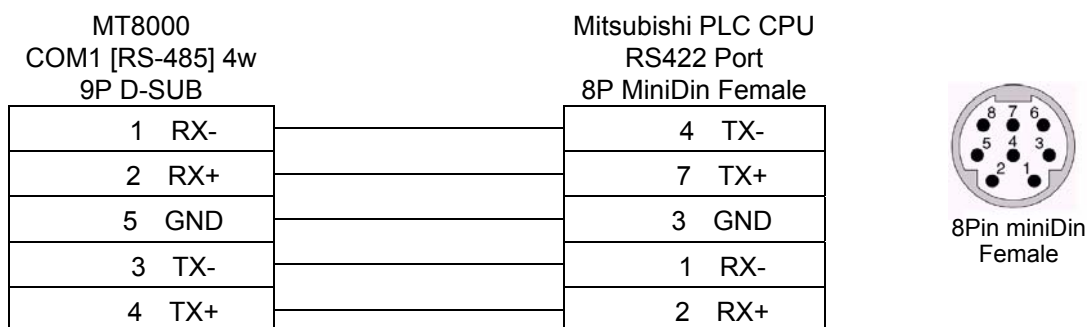


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B	T	ddd	0-255	Timer Relay
B	C	ddd	0-255	Counter Relay
W	TV	ddd	0-255	Timer Memory
W	CV	ddd	0-199	Counter Memory
W	D	ddd	0-9999	Data Register
DW	CV2	ddd	200-255	Counter Memory(D Word)
W	SD	ddd	8000-9999	Special Data Register

## Wiring diagram:





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## Mitsubishi FX2n

Mitsubishi FX2n series PLC

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Mitsubishi FX2n	Mitsubishi FX2n	
Com port	RS485	RS232/RS485	
Baud rate	9600	9600/19200/38400/57600/115200	
Parity bit	Even		
Data Bits	7		
Stop Bits	1		
HMI Station No.	0		
PLC Station No.	0		

Online Simulator	YES	Extend address mode	NO
Broadcast command	NO		

### PLC Setting:

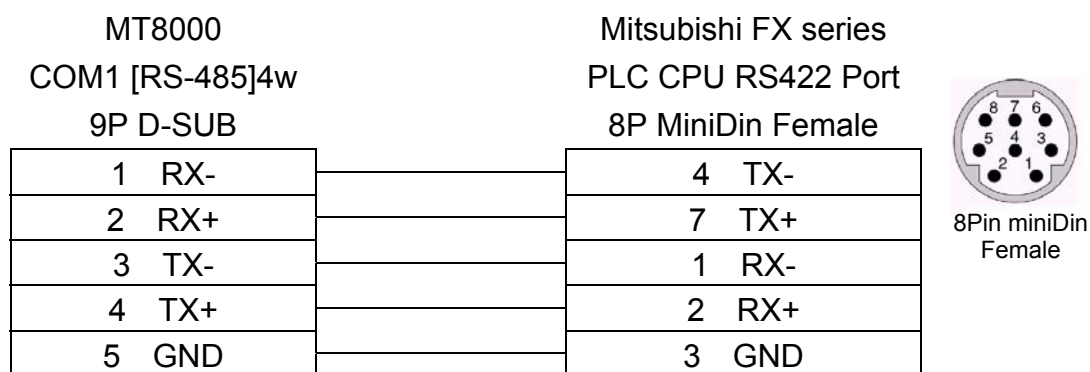
Communication mode	9600,Even,7,1
--------------------	---------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0-377	Input Relay
B	Y	ooo	0-377	Output Relay
B	M	dddd	0-7999	Auxiliary Relay
B	T	ddd	0-255	Timer Relay
B	C	ddd	0-255	Counter Relay

Bit/Word	Device Type	Format	Range	Memo
B	SM	dddd	8000-9999	Special Auxiliary Relay
B	D_Bit	dddd(dd)	0~7999(0~15)	Data Register Bit (D)
B	S	dddd	0~4095	State Relay (S)
W	TV	ddd	0-255	Timer Memory
W	CV	ddd	0-199	Counter Memory
W	D	ddd	0-7999	Data Register
DW	CV2	ddd	200-255	Counter Memory(D Word)
W	SD	ddd	8000-9999	Special Data Register

## Wiring diagram:



## Mitsubishi FX3U

Mitsubishi FX3U/FX3UC

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MITSUBISHI FX3u		
Com port	RS485 4w	RS232/RS485 2w/4w	
Baud rate	9600	9600/19200	must same as the PLC setting
Parity bit	Even		must same as the PLC setting
Data Bits	7		must same as the PLC setting
Stop Bits	1		must same as the PLC setting
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	0		Does not apply to this protocol

Online Simulator	YES	Extend address mode	NO

### PLC Setting:

Communication mode	9600,Even,7,1
--------------------	---------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0~377	Input Relay
B	Y	ooo	0~377	Output Relay
B	M	dddd	0~7679	Auxiliary Relay
B	SM	dddd	8000~9999	Special Relay (M)
B	S	dddd	0~4095	State Relay (S)
B	T	ddd	0~511	Timer Relay (T)
B	C	ddd	0~199	Counter Relay (C)
B	D_Bit	dddd(dd)	dddd=0~7999	Data Register Bit (D)



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Bit/Word	Device Type	Format	Range	Memo
			(dd)=0~15	
W	TV	ddd	0~511	Timer Memory (T)
W	CV	ddd	0~199	Counter Memory (C)
DW	CV2	ddd	200~255	Counter Memory(D Word)
W	D	dddd	0~7999	Data Register (D)
W	SD	dddd	8000~9999	Special Data Register (D)
W	R	dddddd	0~32767	Extended Register (R)

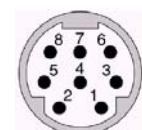
## Wiring diagram:

MT8000  
COM1[RS-485]4w  
9P D-SUB

1	RX-
2	RX+
3	TX-
4	TX+
5	GND

Mitsubishi FX series  
PLC CPU RS422 Port  
8P MiniDin Female

4	TX-
7	TX+
1	RX-
2	RX+
3	GND



8Pin miniDin Female



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[www.kepfrance.fr](http://www.kepfrance.fr)

## MITSUBISHI FX232/485BD

Mitsubishi FX0n/FX2/FX2n COM For Communication Module BD  
FX2N-485-BD, FX2N-232-BD, FX1N-485-BD and FX1N-232-BD

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MITSUBISHI FX232/485BD		
Com port	RS232/RS485	RS232/RS485 2w/4w	in accordance with the BD module
Baud rate	19200	9600/19200	must same as the PLC setting
Parity bit	Even	Even, Odd, None	must same as the PLC setting
Data Bits	7	7,8	must same as the PLC setting
Stop Bits	1	1,2	must same as the PLC setting
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	1	0-15	must same as the PLC setting

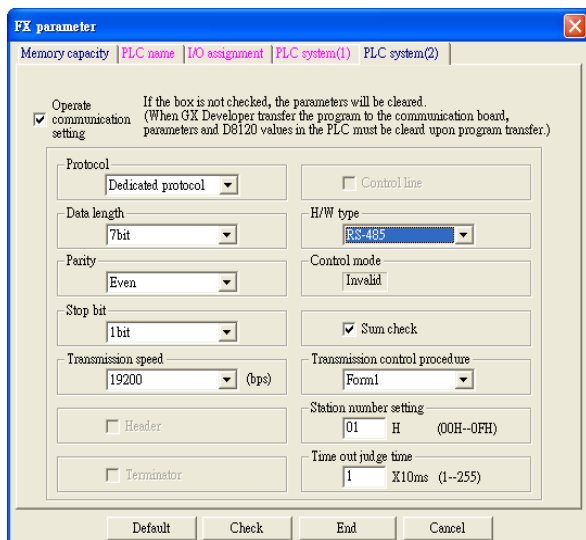
Online Simulator	YES	Extend address mode	YES
Broadcast command			

### PLC Setting:

Communication mode	Must set PLC station when use the BD Module
--------------------	---

Register D8120 setting: set b9 and b8 of BFM#0 as 0





**FX parameter**

Memory capacity | **PLC name** | I/O assignment | PLC system(1) | PLC system(2)

Operate communication setting ☒ If the box is not checked, the parameters will be cleared. (When GX Developer transfer the program to the communication board, parameters and D6120 values in the PLC must be cleared upon program transfer.)

Protocol: Dedicated protocol

Data length: 7bit

Parity: Even

Stop bit: 1bit

Transmission speed: 19200 (bps)

Control line: ☐ Control line

H/W type: RS-485

Control mode: Invalid

Sum check: ☒ Sum check

Transmission control procedure: Form1

Station number setting: 01 H (00H-0FH)

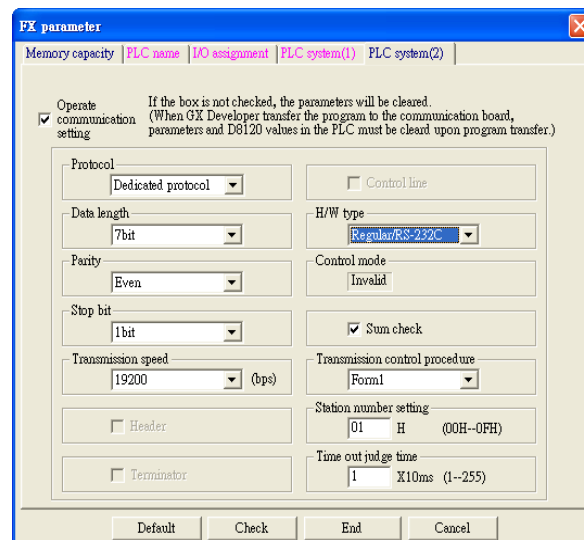
Time out judge time: 1 X10ms (1-255)

Header: ☐ Header

Terminator: ☐ Terminator

Default Check End Cancel

FX2N-485-BD, FX1N-485-BD



**FX parameter**

Memory capacity | **PLC name** | I/O assignment | PLC system(1) | PLC system(2)

Operate communication setting ☒ If the box is not checked, the parameters will be cleared. (When GX Developer transfer the program to the communication board, parameters and D6120 values in the PLC must be cleared upon program transfer.)

Protocol: Dedicated protocol

Data length: 7bit

Parity: Even

Stop bit: 1bit

Transmission speed: 19200 (bps)

Control line: ☐ Control line

H/W type: Regular/RS-232C

Control mode: Invalid

Sum check: ☒ Sum check

Transmission control procedure: Form1

Station number setting: 01 H (00H-0FH)

Time out judge time: 1 X10ms (1-255)

Header: ☐ Header

Terminator: ☐ Terminator

Default Check End Cancel

FX2N-232-BD, FX1N-232-BD

## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0-377	Input Relay
B	Y	ooo	0-377	Output Relay
B	M	ddd	0-9999	Auxiliary Relay
B	T	ddd	0-255	Timer Relay
B	C	ddd	0-255	Counter Relay
W	TV	ddd	0-255	Timer Memory
W	CV	ddd	0-199	Counter Memory
W	D	ddd	0-9999	Data Register
W	CV2	ddd	200-255	Counter Memory(D Word)

## Wiring diagram:

Communication Module RS232BD:

MT8000 RS232

9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX

232BD Module

9P D-SUB

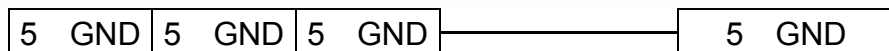
Female

2 RXD
3 TXD



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Communication Module RS485BD:

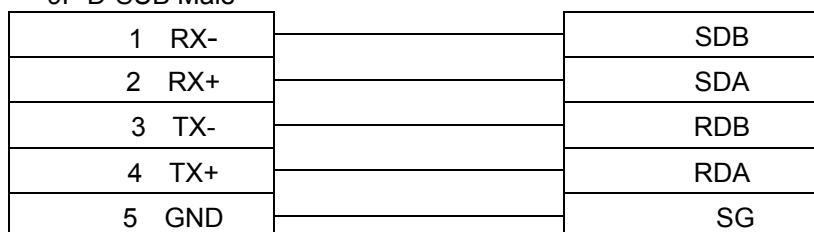
**MT8000 COM1**

**RS-485 4w**

9P D-SUB Male

**485BD Module**

5P terminal



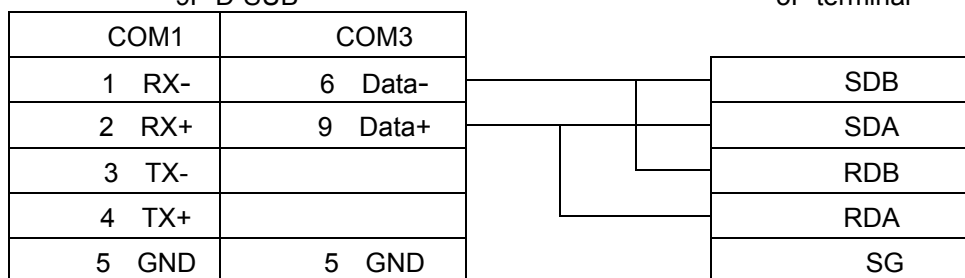
Communication Module RS485BD:

MT8000 RS-485 2Wire

9P D-SUB

**RS485BD Module**

5P terminal



## MITSUBISHI Q02H

Mitsubishi Q02H CPU port.

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MITSUBISHI Q02H		
Com port	RS232	RS485 4W, RS232	
Baud rate	115200	115200 only	
Parity bit	Odd		
Data Bits	8		
Stop Bits	1		
HMI Station No.	0		
PLC Station No.	0		

Online Simulator	YES	Extend address mode	NO
Broadcast command	NO		

### PLC Setting:

Communication mode	
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	hhh	0~1FFF	Input Relay
B	Y	hhh	0~1FFF	Output Relay
B	M	dddd	0~8191	Internal Relay
B	L	dddd	0~8191	Latch Relay
B	F	dddd	0~2047	Annunciator
B	V	dddd	0~2047	Edge Relay
B	B	hhh	0~1FFF	Link Relay
B	TC	ddd	0~2047	Timer Coil



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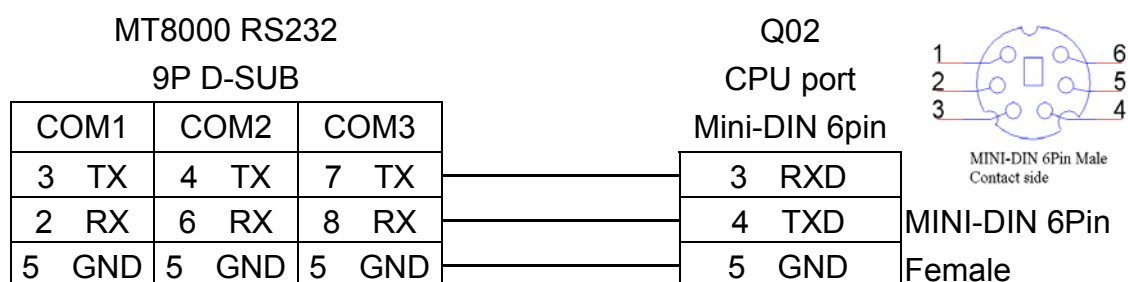
[www.kepfrance.fr](http://www.kepfrance.fr)

Bit/Word	Device Type	Format	Range	Memo
B	SS	ddd	0~2047	Retentive Timer Contact
B	SC	ddd	0~2047	Retentive Timer Coil
B	CS	ddd	0~1023	Counter Contact
B	CC	ddd	0~1023	Counter Coil
B	SB	hhh	0~7FF	Special Link Relay
B	S	dddd	0~8191	Step Relay
B	DX	hhh	0~1FFF	Direct Input
B	DY	hhh	0~1FFF	Direct Output
B	TS	ddd	0~2047	Timer Contact
W	W	hhh	0~1FFF	Link Register
W	TN	ddd	0~2047	Timer Current Value
W	SN	ddd	0~2047	Retentive Timer Current Value
W	CN	ddd	0~1023	Counter Current Value
W	R	dddddd	0~32767	File Register
W	SW	hhh	0~7FF	Special Link Register
W	Z	d	0~9	Index Register
W	ZR	hhhh	0~FFFF	File Register
W	D	dddddd	0~12287	Data Register

ddd: Decimal, hhh: Hexadecimal, ooo: Octal.

## Wiring diagram:

RS-232:





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[www.kepfrance.fr](http://www.kepfrance.fr)

## MITSUBISHI Q06H

Mitsubishi Q06H CPU port.

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

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MITSUBISHI Q06H		
Com port	RS232	RS485 4W, RS232	
Baud rate	115200	115200 only	
Parity bit	Odd		
Data Bits	8		
Stop Bits	1		
HMI Station No.	0		
PLC Station No.	0		

Online Simulator	YES	Extend address mode	NO
Broadcast command	NO		

### PLC Setting:

Communication mode	
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	hhh	0~1FFF	Input Relay
B	Y	hhh	0~1FFF	Output Relay
B	M	dddd	0~8191	Internal Relay
B	L	dddd	0~8191	Latch Relay
B	F	dddd	0~2047	Annunciator
B	V	dddd	0~2047	Edge Relay



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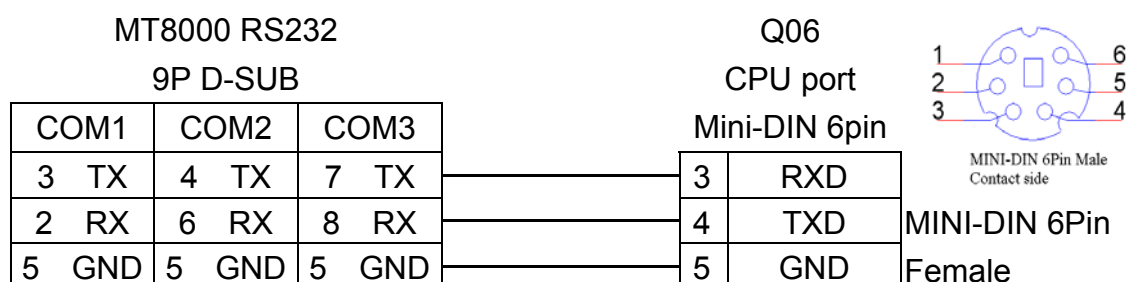
[www.kepfrance.fr](http://www.kepfrance.fr)

Bit/Word	Device Type	Format	Range	Memo
B	B	hhh	0~1FFF	Link Relay
B	TC	ddd	0~2047	Timer Coil
B	SS	ddd	0~2047	Retentive Timer Contact
B	SC	ddd	0~2047	Retentive Timer Coil
B	CS	ddd	0~1023	Counter Contact
B	CC	ddd	0~1023	Counter Coil
B	SB	hhh	0~7FF	Special Link Relay
B	S	dddd	0~8191	Step Relay
B	DX	hhh	0~1FFF	Direct Input
B	DY	hhh	0~1FFF	Direct Output
B	TS	ddd	0~2047	Timer Contact
W	W	hhh	0~1FFF	Link Register
W	TN	ddd	0~2047	Timer Current Value
W	SN	ddd	0~2047	Retentive Timer Current Value
W	CN	ddd	0~1023	Counter Current Value
W	R	dddd	0~32767	File Register
W	SW	hhh	0~7FF	Special Link Register
W	Z	d	0~9	Index Register
W	ZR	hhhh	0~FFFF	File Register
W	D	dddd	0~12287	Data Register

ddd: Decimal, hhh: Hexadecimal, ooo: Octal.

## Wiring diagram:

RS-232:



## mitsubishi QJ71

Mitsubishi Q series PLC with QJ71C24 communication module, Q00, Q01 CPU port.

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

### HMI Setting:

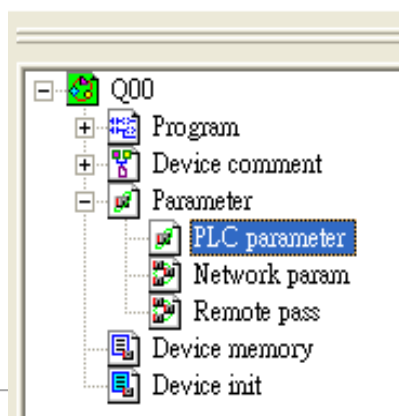
Parameters	Recommend	Option	Notes
PLC type	mitsubishi Melsec_QJ71		
Com port	RS232	RS485 4W, RS232	
Baud rate	9600		
Parity bit	Odd		
Data Bits	8		
Stop Bits	1		
HMI Station No.	0		
PLC Station No.	0		

Online Simulator	YES
Extend address mode	NO

### PLC Setting:

Communication mode	
--------------------	--

Q00, Q01 CPU port setting:



1. In the GX Developer "PLC data list" click the "PLC parameter"
2. In the "PLC parameter" select "Serial" page.
3. Select "Use serial communication"
4. Set the "Transmission speed". 9600~115200.
5. Select "Sum check"
6. Select "Transmission wait time" to 10ms.



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7. Select "RUN write setting"
8. Click "End" close the dialog.
9. Write the PLC Parameter to PLC.
10. RESET the PLC, the parameter will active.

## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	hhh	0~1FFF	Input Relay
B	Y	hhh	0~1FFF	Output Relay
B	M	dddd	0~8191	Internal Relay
B	L	dddd	0~8191	Latch Relay
B	F	dddd	0~2047	Annunciator
B	V	dddd	0~2047	Edge Relay
B	B	hhh	0~1FFF	Link Relay
B	TC	ddd	0~2047	Timer Coil
B	SS	ddd	0~2047	Retentive Timer Contact
B	SC	ddd	0~2047	Retentive Timer Coil
B	CS	ddd	0~1023	Counter Contact
B	CC	ddd	0~1023	Counter Coil
B	SB	hhh	0~7FF	Special Link Relay
B	S	dddd	0~8191	Step Relay
B	DX	hhh	0~1FFF	Direct Input





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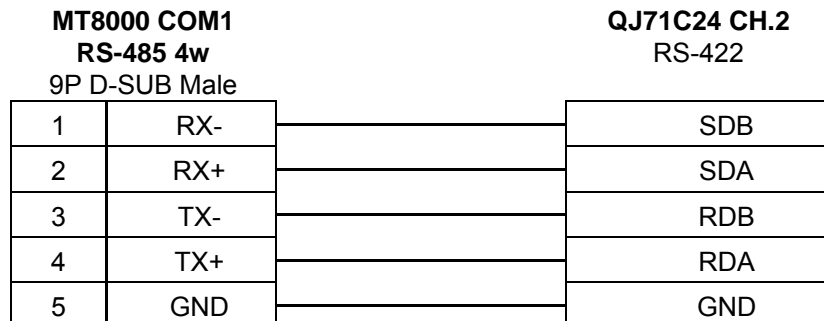
[www.kepfrance.fr](http://www.kepfrance.fr)

Bit/Word	Device Type	Format	Range	Memo
B	DY	hhh	0~1FFF	Direct Output
B	TS	ddd	0~2047	Timer Contact
W	W	hhh	0~1FFF	Link Register
W	TN	ddd	0~2047	Timer Current Value
W	SN	ddd	0~2047	Retentive Timer Current Value
W	CN	ddd	0~1023	Counter Current Value
W	R	dddddd	0~32767	File Register
W	SW	hhh	0~7FF	Special Link Register
W	Z	d	0~9	Index Register
W	ZR	hhhh	0~FFFF	File Register
W	D	dddddd	0~12287	Data Register

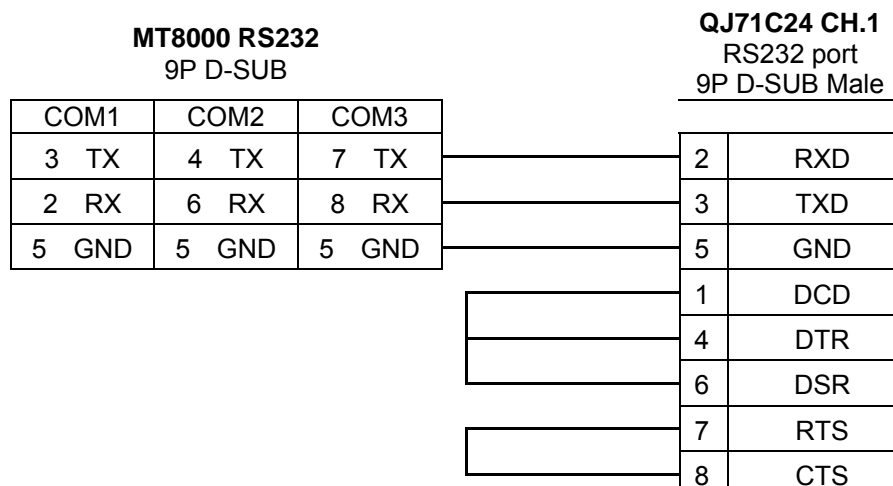
ddd: Decimal, hhh: Hexadecimal, ooo: Octal.

## Wiring diagram:

RS-485 4W:



RS-232:





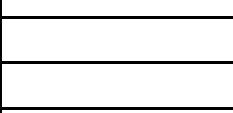
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Q00, Q01 CPU port RS-232:

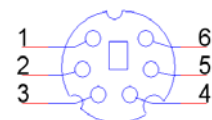
**MT8000 RS232**  
9P D-SUB

COM1	COM2	COM3
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND



**Q00, Q01**  
CPU port  
Mini-DIN 6pin

3	RXD
4	TXD
5	GND



MINI-DIN 6Pin  
Female

# MODBUS ASCII

## MODBUS ASCII CONTROLLER

<http://www.modbus.org>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Modbus ASCII		
Com port	RS485	RS232/RS485	
Baud rate	9600	9600/19200/38400/57600/115200	
Parity bit	Even	Even, Odd, None	
Data Bits	8	7,8	
Stop Bits	1	1,2	
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	1	0-255	

Online Simulator	YES	Broadcast command	YES
Extend address mode	YES		

### PLC Setting:

Communication mode	Modbus ASCII protocol
--------------------	-----------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	0x	dddddd	1-65535	Output bit
B	1x	dddddd	1-65535	Input bit (read only)
B	3x_Bit	dddddd(dd)	100-6553515	Input Register bit (read only)
B	4x_Bit	dddddd(dd)	100-6553515	Output Register bit
W	3x	dddddd	1-65535	Input Register (read only)
W	4x	dddddd	1-65535	Output Register

Modbus RTU function code:

0x 0x01 Read coil

0x05 write single coil



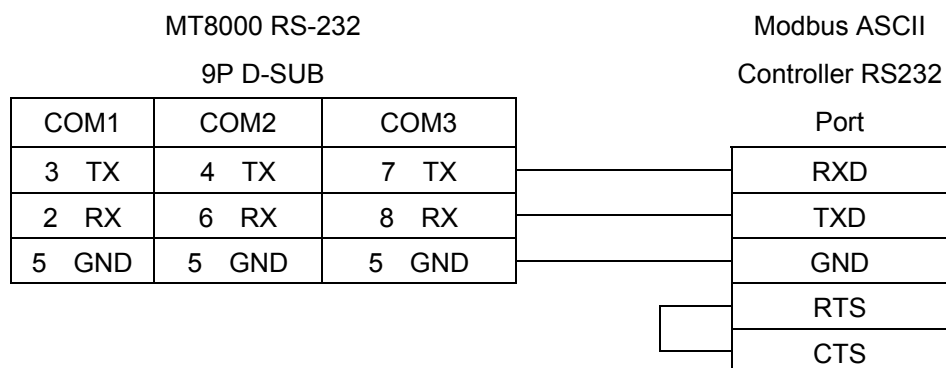
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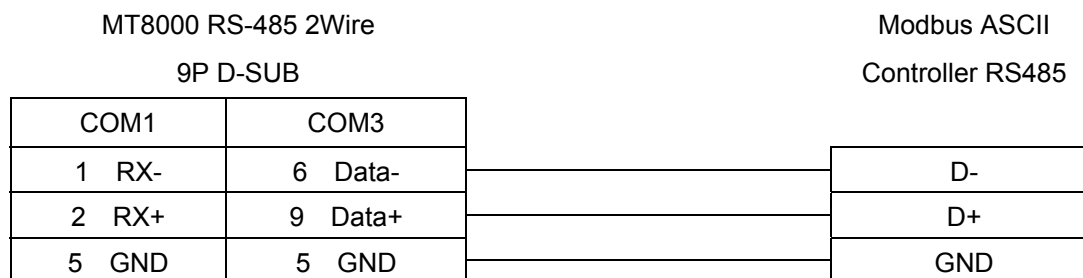
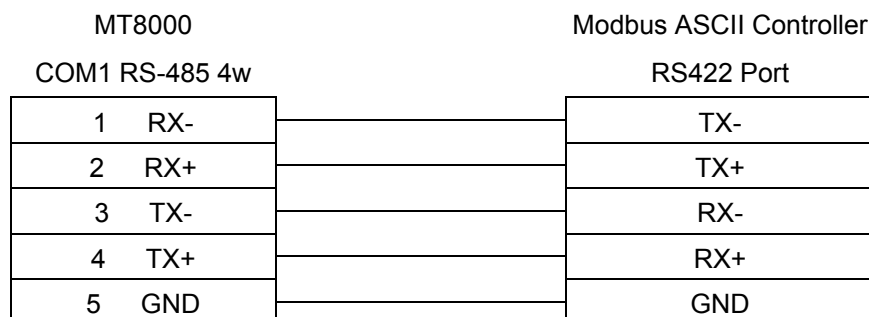
1x	0x02 Read discrete input	N/A for write operation
3x	0x04 Read input register	N/A for write operation
4x	0x03 Read holding register	0x10 write multiple register
3xbit is equivalent to 3x		
4xbit is equivalent to 4x		

## Wiring diagram:

### MODBUS RS232 PORT



### MODBUS RS422/485 PORT





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## MODBUS RTU

MODBUS RTU CONTROLLER

<http://www.modbus.org>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Modbus RTU		
Com port	RS485	RS232/RS485	
Baud rate	9600	9600~115200	
Parity bit	Even	Even, Odd, None	
Data Bits	8	7,8	
Stop Bits	1	1,2	
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	1	0-255	

Online Simulator	YES	Broadcast command	YES
Extend address mode	YES		

### PLC Setting:

Communication mode	Modbus RTU protocol
--------------------	---------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	0x	dddddd	1-65535	Output bit
B	1x	dddddd	1-65535	Input bit (read only)
B	3x_Bit	dddddd(dd)	100-6553515	Input Register bit (read only)
B	4x_Bit	dddddd(dd)	100-6553515	Output Register bit
W	3x	dddddd	1-65535	Input Register (read only)
W	4x	dddddd	1-65535	Output Register
DW	5x	dddddd	1-65535	4x double word swap
W	6x	dddddd	1-65535	4x single word write



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#### NOTE:

Address type “5x” are mapping to Hold Reg. The communication protocol of 5x almost same as “4x” except “5x” making double word swap.

If 4x have following information

Address	1	2	3	4	5	6	...
Data in word	0x1	0x2	0x3	0x4	0x5	0x6	
Data	0x20001		0x40003		0x60005		

For 5x, it become

Address	1	2	3	4	5	6	...
Data in word	0x2	0x1	0x4	0x3	0x6	0x5	
Data	0x10002		0x30004		0x50006		

Modbus RTU function code:

0x	0x01 Read coil	0x05 write single coil
1x	0x02 Read discrete input	N/A for write operation
3x	0x04 Read input register	N/A for write operation
4x	0x03 Read holding register	0x10 write multiple register
5x	0x03 Read holding register	0x10 write multiple register

( note: reverse word order in double word format)

3xbit is equivalent to 3x

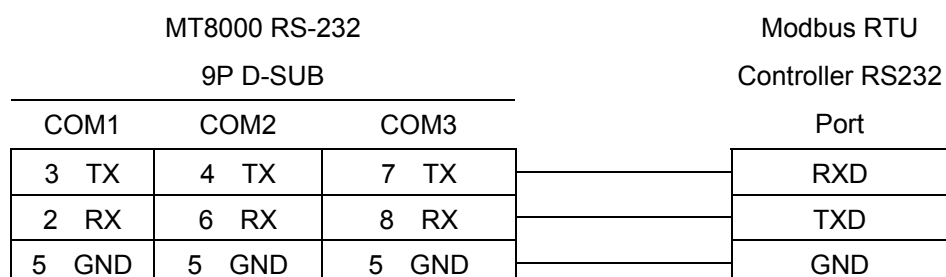
4xbit is equivalent to 4x

6x	0x03 Read holding register	0x06 write single register
----	----------------------------	----------------------------

( note: use 6x device is limited to device of one word only )

## Wiring diagram:

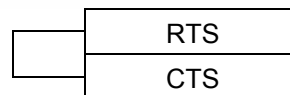
### MODBUS RS232 PORT



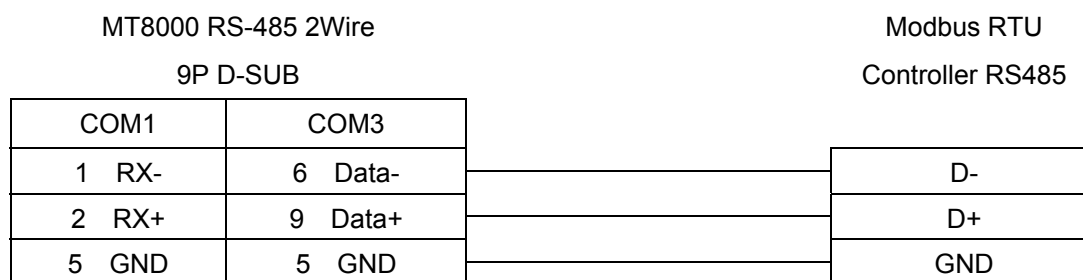
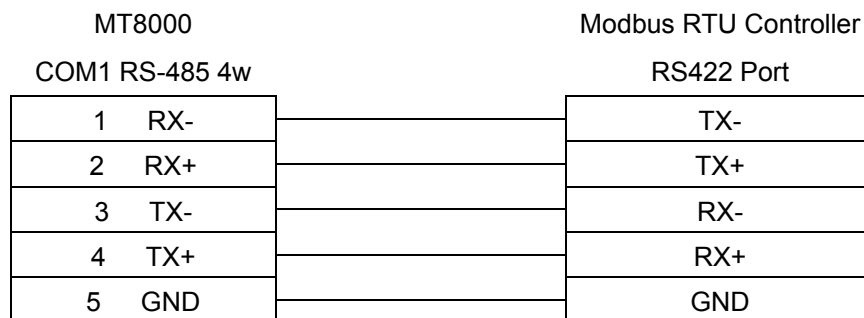


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## MODBUS RS422/485 PORT





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## Modbus Server (Modbus RTU Slave)

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Modbus Server		
Com port	RS232	RS232, RS485	
Baud rate	9600	9600~115200	
Parity bit	Even	Even, Odd, None	
Data Bits	8	8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	1-31	<b>HMI Modbus station No.</b>

Online Simulator	YES	Extend address mode	NO
Broadcast command	NO		

### PLC Setting:

Communication mode	<b>Modbus RTU protocol</b>
--------------------	----------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	LB	dddd	0~9998	Mapping to 0x/1x 1~9999
W	LW	dddd	0~9998	Mapping to 3x/4x 1~9999
W	RW	dddddd	0~55536	Mapping to 3x/4x 10000~65536

LB0 = 0x0001, LB1 = 0x0002, LW0 = 3x0001, LW1 = 3x0002

Modbus RTU Server doesn't support function Code 06(to preset single register), please use function code 16(0x10, preset multiple register).



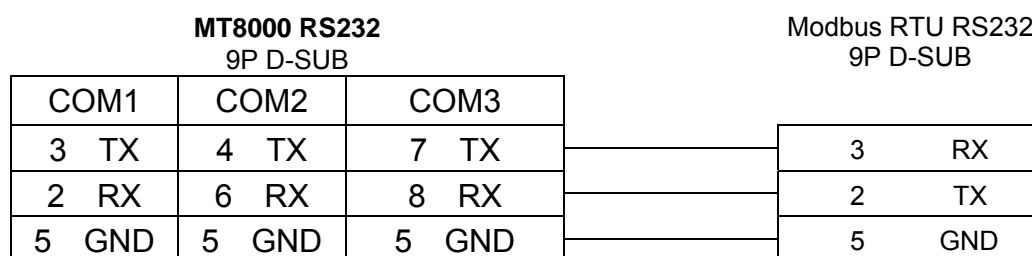


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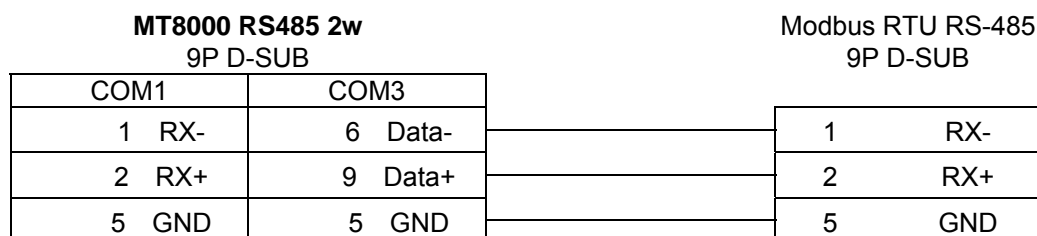
[www.kepfrance.fr](http://www.kepfrance.fr)

## Wiring diagram:

RS-232:



RS-485:





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[www.kepfrance.fr](http://www.kepfrance.fr)

## Modbus TCP/IP

Modbus RTU TCP/IP device.

<http://www.modbus.org>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	MODBUS TCP/IP		
Com port	Ethernet		
HMI Station No.	0	Does not apply	
PLC Station No.	0	0~255	
TCP/IP port	502		

### PLC Setting:

Communication mode	
--------------------	--

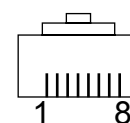
### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	0x	dddddd	1-65535	Output bit
B	1x	dddddd dd	1-65535	Input bit (read only)
B	3x_bit	dddddd dd	100-6553515	Input Register bit (read only)
B	4x_bit	dddddd	100-6553515	Output Register bit
W	3x	dddddd	1-65535	Input Register (read only)
W	4x	dddddd	1-65535	Output Register
DW	5x	dddddd	1-65535	4x double word swap

### Wiring diagram:

Ethernet::

MT8000 Ethernet RJ45			Wire color			Ethernet Hub or Switch RJ45		
1	TX+	White/Orange				1	RX+	
2	TX-	Orange				2	RX-	
3	RX+	White/Green				3	TX+	
4	BD4+	Blue				4	BD4+	
5	BD4-	White/Blue				5	BD4-	
6	RX-	Green				6	TX-	



RJ45



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7	BD3+	White/Brown		7	BD3+
8	BD3-	Brown		8	BD3-

Ethernet: Direct connect (crossover cable)

MT8000 Ethernet RJ45		Wire color		Modbus TCP Device RJ45	
1	TX+	White/Orange		3	RX+
2	TX-	Orange		6	RX-
3	RX+	White/Green		1	TX+
4	BD4+	Blue		4	BD4+
5	BD4-	White/Blue		5	BD4-
6	RX-	Green		2	TX-
7	BD3+	White/Brown		7	BD3+
8	BD3-	Brown		8	BD3-



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## Modicon Twido

<http://www.modicon.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Modbus RTU		Support Extended Address mode.
Com port	RS485	RS232/RS485	Must match the PLC's port setting.
Baud rate	19200	19200	Must match the PLC's port setting.
Parity bit	None	Even, Odd, None	Must match the PLC's port setting.
Data Bits	8	8	Must set 8 for RTU mode
Stop Bits	1	1	Must set 8 for RTU mode
HMI Station No.	0		Does not apply to this protocol.
PLC Station No.	1	0-247	Must match the PLC's port setting.

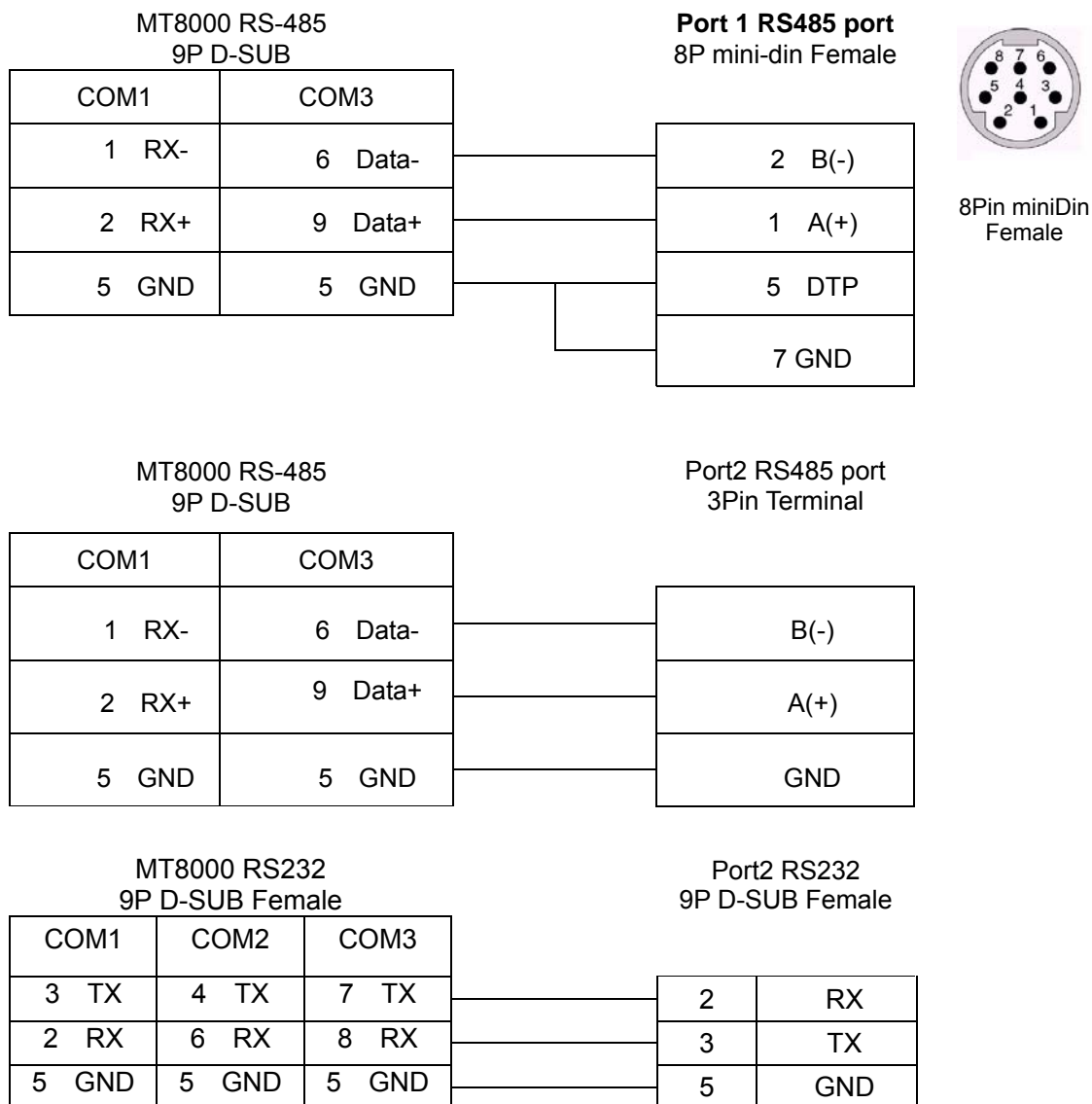
### PLC Setting:

Communication mode	<b>19200, None, 8, 1</b>
Select	<b>Modbus RTU Slave</b>

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	0x or 1x	dddd	0~9999	%Mi
W	3x or 4x	dddd	0~9999	%MWi

## Wiring diagram:





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## OMRON C/CQM1 Series

OMRON C, CPM, CQM Series (Host Link Protocol),

<http://oeiweb.omron.com/oei/Products-PLC.htm>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	OMRON C/CQM1 Series		
Com port	RS232	RS232, RS422, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7 or 8	
Stop Bits	2	1 or 2	
HMI Station No.	0		
PLC Station No.	0	0-31	Host Link Station No.

Online Simulator	YES	Broadcast command	YES
Extend address mode	YES		

### PLC Setting:

Communication mode	Host Link protocol
--------------------	--------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	IR	ddd(dd)	0-409515	I/O and internal Relay
B	HR	ddd(dd)	0-409515	Hold Relay
B	AR	ddd(dd)	0-409515	Auxiliary Relay
B	LR	ddd(dd)	0-409515	Link Relay
B	TC	ddd	0-519	Timer/Counter Register
W	DM	dddd	0-6659	Data register



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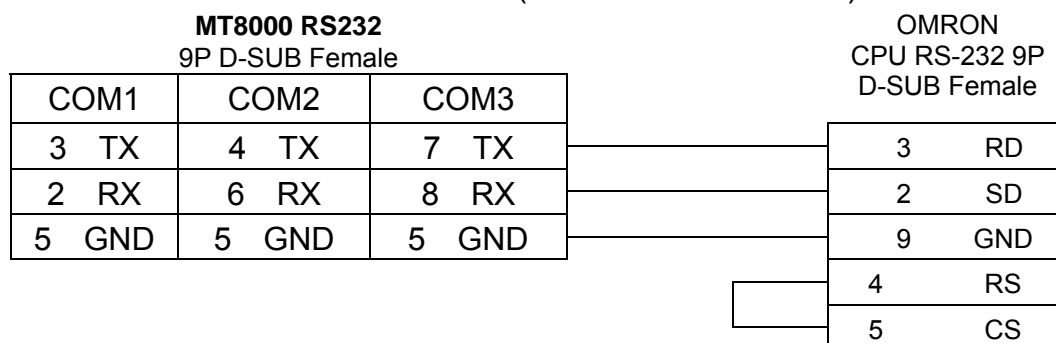
## Wiring diagram:

CPU Port(CPM2A,CQM1/1H,C200H/HS/ALPHA series)

Communication Module:

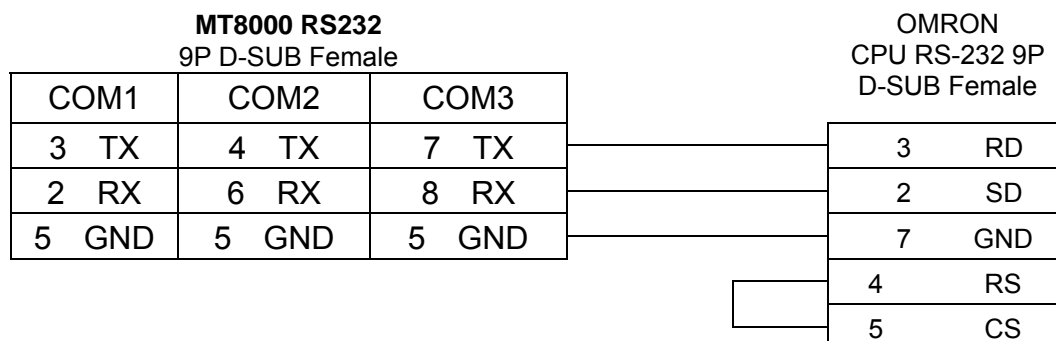
CPM1-CIF01 adapter(for CPM1/CPM1A/CPM2A series,CQM1/CQM1H series)

CPM1H-SCB41 communication module(for CQM1H-CPU51/61)



C200h-LK201,3G2A6-LK201 communication module

C200HW-COM02/03/04/05/06 communication module





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## OMRON CJ1/CS1

OMRON CJ1M, CJ1H, CJ1G, CS1H and CS1G. (Host Link Protocol FINS command),  
This driver supports Extend Addressing mode.

<http://oeiweb.omron.com/oei/Products-PLC.htm>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	OMRON CJ1/CS1		
Com port	RS232	RS232, RS422, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7 or 8	
Stop Bits	2	1 or 2	
HMI Station No.	0		
PLC Station No.	0	0-31	Host Link Station No.

Online Simulator	YES	Extend address mode	YES
Broadcast command	NO		

### PLC Setting:

Communication mode	Host Link protocol
--------------------	--------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
Bit	D_bit	ddd(dd)	ddd:0~32767 (dd): 0~15	Data Memory (DM)
Bit	H_bit	ddd(dd)	ddd:0~511 (dd): 0~15	Holding Area (HR)
Bit	W_bit	ddd(dd)	ddd:0~511 (dd): 0~15	Work Area (WR)
Bit	CIO_bit	ddd(dd)	ddd:0~6143 (dd): 0~15	Channel I/O (CIO)
Bit	A_bit	ddd(dd)	ddd:0~959 (dd): 0~15	Auxiliary Relay (AR)
Bit	T_bit	ddd	ddd:0~4095	Timer (TIM)





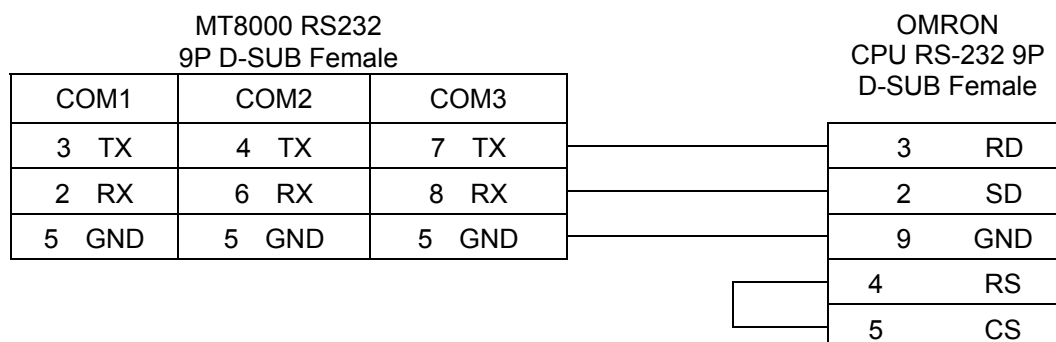
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Bit/Word	Device Type	Format	Range	Memo
Bit	C_bit	ddd	ddd:0~4095	Counter (CNT)
Word	D	ddd	ddd:0~32767	Data Memory (DM)
Word	H	ddd	ddd:0~511	Holding Area (HR)
Word	W	ddd	ddd:0~511	Work Area (WR)
Word	CIO	ddd	ddd:0~6143	Channel I/O (CIO)
Word	A	ddd	ddd:0~959	Auxiliary Relay (AR)
Word	T	ddd	ddd:0~4095	Timer (TIM)
Word	C	ddd	ddd:0~4095	Counter (CNT)
Word	EM0~EMC	dddd	dddd:0~6149	Extend Memory

## Wiring diagram:

RS-232:



## OMRON CJ1/CS1 Ethernet

OMRON CJ1M, CJ1H, CJ1G, CS1H and CS1G. (Ethernet FINS),

<http://oeiweb.omron.com/oei/Products-PLC.htm>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	OMRON CJ1/CS1 (Ethernet)		
Com port	Ethernet		
TCP port	9600		
HMI Station No.	0		
PLC Station No.	0		

### PLC Setting:

Communication mode	<b>FINS Ethernet protocol</b>
--------------------	-------------------------------

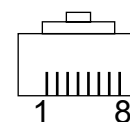
### Device address:

Bit/Word	Device Type	Format	Range	Memo
Bit	D_bit	dddd(dd)	ddd:0~32767 (dd): 0~15	Data Memory (DM)
Bit	H_bit	ddd(dd)	ddd:0~511 (dd): 0~15	Holding Area (HR)
Bit	W_bit	ddd(dd)	ddd:0~511 (dd): 0~15	Work Area (WR)
Bit	CIO_bit	dddd(dd)	ddd:0~6143 (dd): 0~15	Channel I/O (CIO)
Bit	A_bit	ddd(dd)	ddd:0~959 (dd): 0~15	Auxiliary Relay (AR)
Bit	T_bit	dddd	ddd:0~4095	Timer (TIM)
Bit	C_bit	dddd	ddd:0~4095	Counter (CNT)
Word	D	dddddd	ddd:0~32767	Data Memory (DM)
Word	H	ddd	ddd:0~511	Holding Area (HR)
Word	W	ddd	ddd:0~511	Work Area (WR)
Word	CIO	dddd	ddd:0~6143	Channel I/O (CIO)
Word	A	ddd	ddd:0~959	Auxiliary Relay (AR)
Word	T	dddd	ddd:0~4095	Timer (TIM)
Word	C	dddd	ddd:0~4095	Counter (CNT)

## Wiring diagram:

Ethernet:

MT8000 Ethernet RJ45		Wire color	Ethernet Hub or Switch RJ45	
1	TX+	White/Orange	1	RX+
2	TX-	Orange	2	RX-
3	RX+	White/Green	3	TX+
4	BD4+	Blue	4	BD4+
5	BD4-	White/Blue	5	BD4-
6	RX-	Green	6	TX-
7	BD3+	White/Brown	7	BD3+
8	BD3-	Brown	8	BD3-



RJ45

Ethernet: Direct connect (crossover cable)

MT8000 Ethernet RJ45		Wire color	OMRON Ethernet RJ45	
1	TX+	White/Orange	3	RX+
2	TX-	Orange	6	RX-
3	RX+	White/Green	1	TX+
4	BD4+	Blue	4	BD4+
5	BD4-	White/Blue	5	BD4-
6	RX-	Green	2	TX-



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7 BD3+	White/Brown		7 BD3+
8 BD3-	Brown		8 BD3-



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## OMRON E5CN

OMRON E5□N series Temperature controller with communication option.

E5EN/CN/GN series

<http://oeiweb.omron.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	OMRON E5CN		
Com port	RS485 2W		
Baud rate	9600	9600/19200/38400/57600/115200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7,8	
Stop Bits	2	1,2	
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	0	0-99	

Online Simulator	YES	Broadcast command	YES
Extend address mode	YES		

### PLC Setting:

Communication mode	9600, Even, 7, 2 (default)
--------------------	----------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	Status	dd	0-31	Page40
DW	C0	hhhh	0-5	Read only (Hex) Page34
DW	C1	hhhh	0-1C	Read/Write (Hex) Page35
DW	C3	hhhh	0-1D	Read/Write (Hex) Page36
W	Operation00_00	hh	0	Communications writing OFF (disabled)
W	Operation00_01	hh	0	Communications writing ON(Enabled)
W	Operation01_00	hh	0	Run



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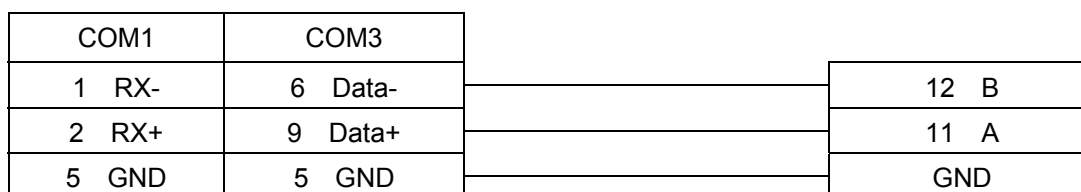
Bit/Word	Device Type	Format	Range	Memo
W	Operation01_01	hh	0	Stop
W	Operation02_00	hh	0	Multi-SP Set point 0
W	Operation02_01	hh	0	Multi-SP Set point 1
W	Operation02_02	hh	0	Multi-SP Set point 2
W	Operation02_03	hh	0	Multi-SP Set point 3
W	Operation03_00	hh	0	AT cancel
W	Operation03_01	hh	0	AT execute
W	Operation04_00	hh	0	Write mode (Backup)
W	Operation04_01	hh	0	Write mode (Ram)
W	Operation05_00	hh	0	Save RAM data
W	Operation06_00	hh	0	Software reset
W	Operation07_00	hh	0	Move to setup area 1
W	Operation08_00	hh	0	Move to protect level

## Wiring diagram:

MT8000 RS-485 2Wire

OMRON E5CN

9P D-SUB





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[www.kepfrance.fr](http://www.kepfrance.fr)

## SAIA PCD S-Bus mode

SAIA PCD series S-Bus mode.

<http://www.saia-burgess.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	SAIA PCD S-BUS mode	SAIA PCD PGU mode	PDS driver
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200, 38400	
Parity bit	None	Even, Odd, None	
Data Bits	8	7,8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	0-255	

### PLC Setting:

Communication mode	<b>9600,N,8,1(default)</b>
RS232	<b>Port 0-Type:RS232</b>
RS485 2W	<b>S-BUS Mode:Data(S2),Port 1-Type:RS485</b>

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	Flag	ddd	ddd=0~8191	
B	Input	ddd	ddd=0~511	
B	Output	ddd	ddd=0~511	
D	Register	ddd	ddd=0~4095	
D	Counter	ddd	ddd=0~1599	
D	Timer	ddd	ddd=0~450	
D	Reg_Float	ddd	ddd=0~4095	support single float point

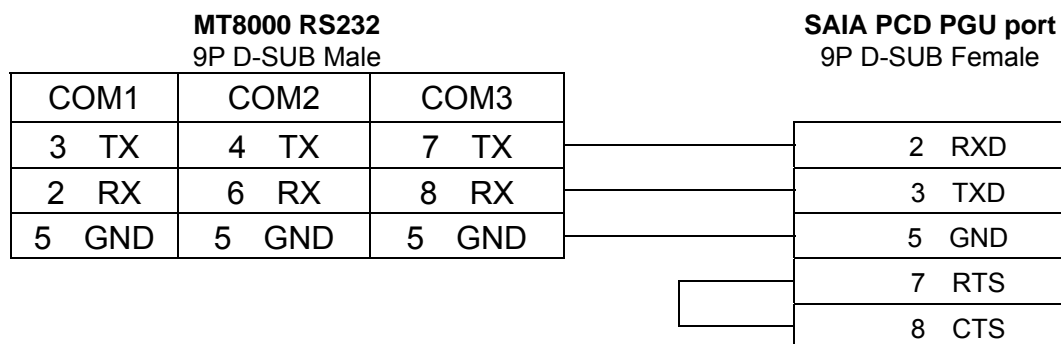


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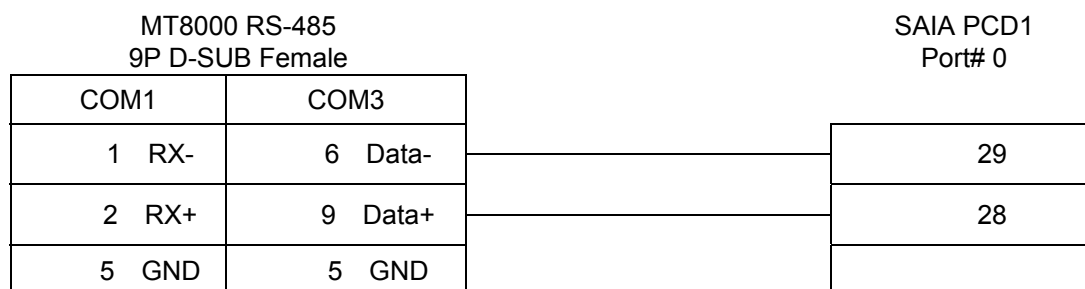
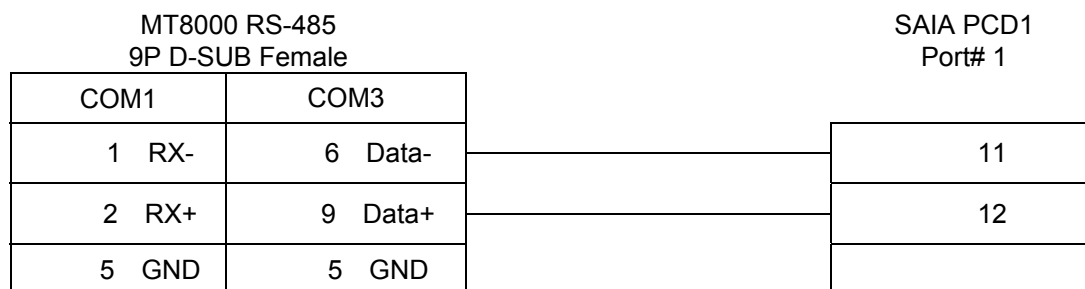
[www.kepfrance.fr](http://www.kepfrance.fr)

## Wiring diagram:

RS232:



RS485:





## SAIA PCD PGU mode

SAIA PCD series PGU mode.

<http://www.saia-burgess.com/>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	SAIA PCD PGU mode	SAIA PCD S-BUS mode	PDS driver
Com port	RS232	RS232, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	7	7,8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	0-255	

### PLC Setting:

Communication mode	<b>9600,E,7,1(default)</b>
--------------------	----------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	Flag	ddd	ddd=0~8191	
B	Input	ddd	ddd=0~511	
B	Output	ddd	ddd=0~511	
D	Register	ddd	ddd=0~4095	
D	Counter	ddd	ddd=0~1599	
D	Timer	ddd	ddd=0~450	
D	Reg_Float	ddd	ddd=0~4095	support single float point

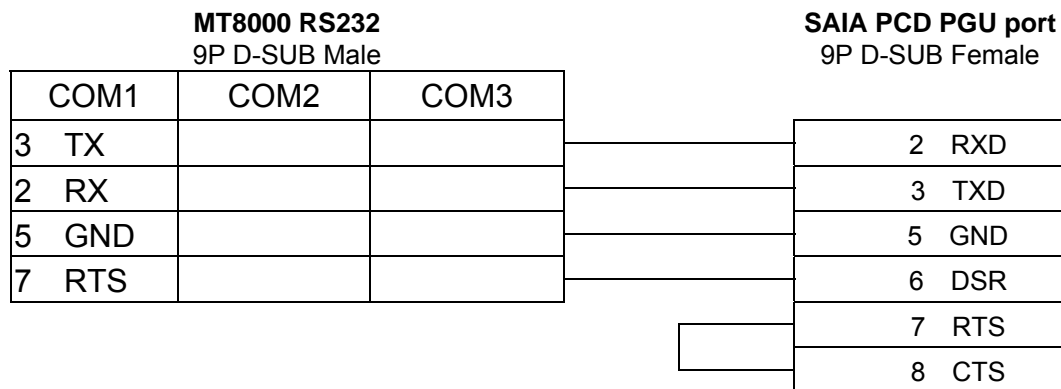


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## Wiring diagram:

RS232:



6 DSR(Of PGU Port):PGU connected



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## SIEMENS S7/200

Siemens S7/200 series PLC (CPU212/214/215/216/221/222/224/226/226XM)

<http://www.ad.siemens.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	SIEMENS S7/200		
Com port	RS485	RS485	
Baud rate	9600	9600, 19200	Must same as the PLC setting
Parity bit	Even	Even, Odd, None	Must same as the PLC setting
Data Bits	8	7,8	Must same as the PLC setting
Stop Bits	1	1, 2	Must same as the PLC setting
HMI Station No.	0	0-255	
PLC Station No.	2	0-255	Must same as the PLC setting
Turn around delay (ms)	5		
Reserved 1	30		ACK delay time

Online Simulator	YES	Extend address mode	NO
Broadcast command	NO		

### PLC Setting:

Communication mode	Set station number as 2
--------------------	-------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I	dddd(o)	0-40957	Input (I)
B	Q	dddd(o)	0-40957	Output (O)
B	M	dddd(o)	0-40957	Bit Memory
B	VW.Bit	dddddd(o)	0-102397	V Memory bit address
W	VW	dddddd	0-10238	V memory
DW	VD	dddddd	0-10236	V memory double word

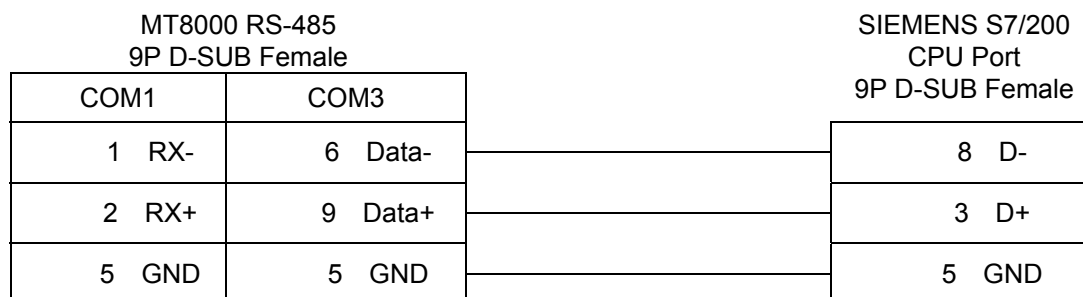


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[www.kepfrance.fr](http://www.kepfrance.fr)

\* Double word and Floating point value must use VD device type.

## Wiring diagram:





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[www.kepfrance.fr](http://www.kepfrance.fr)

## SIEMENS S7/300

Siemens S7/300 series PLC

<http://www.ad.siemens.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	SIEMENS S7/300		
Com port	RS232		
Baud rate	19200, 38400	9600~115200	Must same as the PLC setting
Parity bit	Odd		
Data Bits	8		
Stop Bits	1		
HMI Station No.	0		Does not apply to this protocol
PLC Station No.	2		Must same as the PLC setting

### PLC Setting:

Communication mode	
--------------------	--

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	I	dddd(o)	0-40957	Input (I)
B	Q	dddd(o)	0-40957	Output (O)
B	M	dddd(o)	0-40957	Bit Memory
B	DB0Bit-DB99Bit	dddd(o)	0-81927	Data register bit
W	DB0-DB99	dddd	0-8192	Data register(must be even)
W	IW	dddd	0-4095	Input (I)
W	QW	dddd	0-4095	Output (O)
W	MW	dddd	0-4095	Bit Memory
W	DBn	dddddd	000000-998192	Data register(must be even)
DW	DBDn	ffdddd	ff:0-99, dddd:0-8192	Data register double word

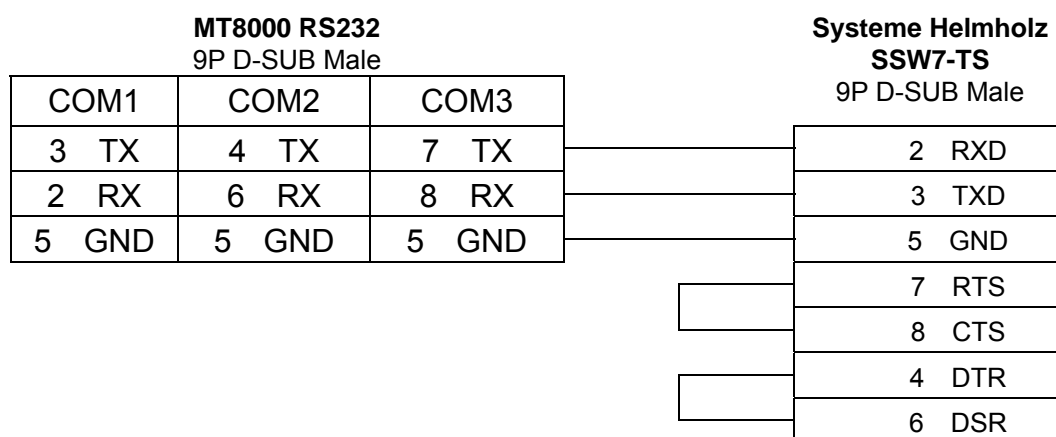
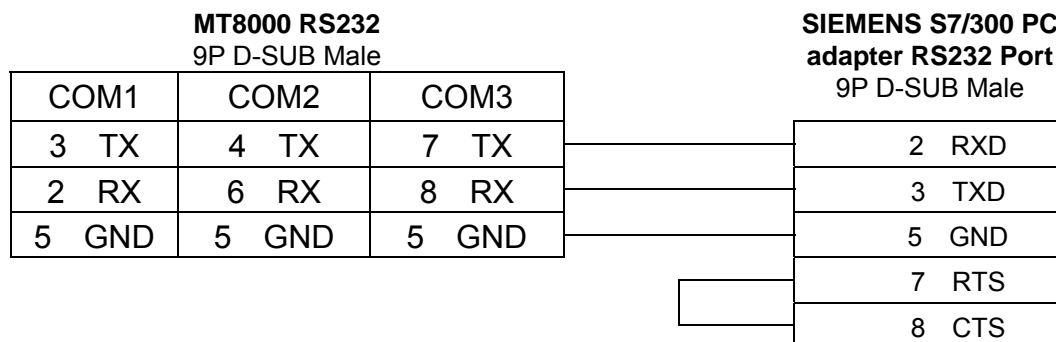
\* Double word and Floating point value must use DBDn device type.



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[www.kepfrance.fr](http://www.kepfrance.fr)

## Wiring diagram:





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## Telemecanique UniTelWay

Modicon TSX Micro&Nano&Neza series PLC

<http://www.modicon.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Telemecanique UniTelWay		
Com port	RS485	RS232/RS485	
Baud rate	9600	9600~115200	Must same as the PLC setting
Parity bit	Odd	Even, Odd, None	Must same as the PLC setting
Data Bits	8	7,8	Must set as 8 to this protocol
Stop Bits	1	1, 2	Must same as the PLC setting
HMI Station No.	5	4-7	Must set by manual
PLC Station No.	0	0-3	

Online Simulator	YES	Extend address mode	YES
Broadcast command	NO		

### PLC Setting:

Communication mode	UniTelWay protocol, set PLC as master
--------------------	---------------------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	S	ddd	0-32767	Internal relay
B	M	ddd	0-32767	Auxiliary relay



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B	MW.B	ddd(dd)	0-999915	Data register bit
W	MW	ddd	0-9999	Data register

## Wiring diagram:

TSX37-XX/TSX07-XX CPU

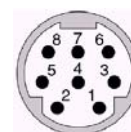
MT8000 RS-485  
9P D-SUB

COM1	COM3
1 RX-	6 Data-
2 RX+	9 Data+
5 GND	5 GND

TSX series CPU  
port

8P mini-din Female

8 D-
3 D+
5 GND



8Pin miniDin  
Female



## TOSHIBA T series

Toshiba T series, S2E

<http://www.tic.toshiba.com>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Toshiba T Serial		
Com port	RS232	RS232/RS485	In accordance with plc port
Baud rate	9600	9600, 19200,38400,57600,115200	Must same as the PLC setting
Parity bit	Odd	Even, Odd, None	Must same as the PLC setting
Data Bits	8	7,8	Must same as the PLC setting
Stop Bits	1	1, 2	Must same as the PLC setting
HMI Station No.	0	0-255	Does not apply to this protocol
PLC Station No.	0	0-255	In accordance with PLC setting

Online Simulator	YES	Extend address mode	YES
Broadcast command			

### PLC Setting:

Communication mode	<b>Must set PLC node ID</b>
--------------------	-----------------------------

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ddd(h)	0-9999f	Input Bit
B	Y	ddd(h)	0-9999f	Output Bit



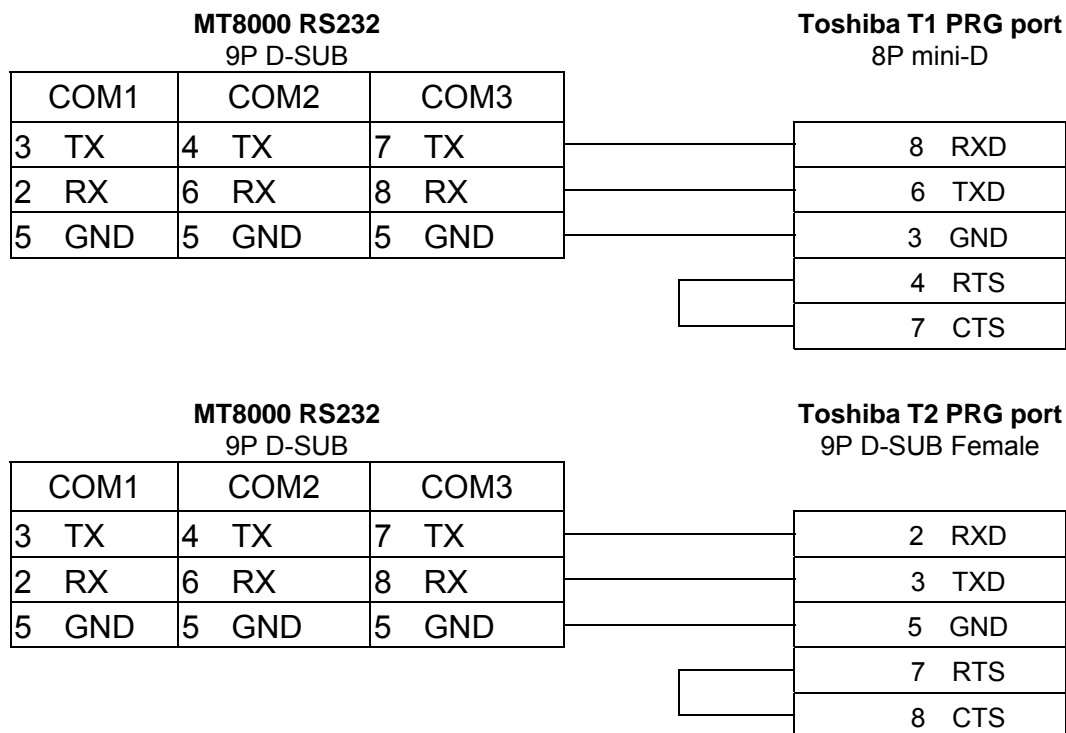
KEP France

[www.kepfrance.fr](http://www.kepfrance.fr)

Bit/Word	Device Type	Format	Range	Memo
B	R	ddd(h)	0-9999f	Auxiliary Bit
B	S	ddd(h)	0-9999f	Special Bit
W	T	ddd	0-9999	Timer Register
W	C	ddd	0-9999	Counter Register
W	D	ddd	0-9999	Data Memory
W	SW	ddd	0-9999	Special Register
W	XW	ddd	0-9999	Input Register
W	YW	ddd	0-9999	Output Register
W	RW	ddd	0-9999	Auxiliary Register

## Wiring diagram:

### RS232





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## RS485

**MT8000 COM1**  
**RS485**  
9P D-SUB

**Toshiba T2 LINK port**  
15P D-SUB Female

1	RX-		11	TXB
2	RX+		3	TXA
3	TX-		10	RXB
4	TX+		2	RXA
5	GND		7	SG
			5	RTSA
			4	CTSA
			13	RTSB
			12	CTSB



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# TOSHIBA VF-S11

Toshiba Invertor Protocol(ASCII code)

## HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Toshiba VF-S11		
Com port	RS485(2 wire)	RS422, RS485	
Baud rate	9600	9600, 19200	
Parity bit	Even	Even, Odd, None	
Data Bits	8	7 or 8	
Stop Bits	1	1 or 2	
HMI Station No.	0		
PLC Station No.	0	0-99	

Online Simulator	YES	Extend address mode	YES
Broadcast command	YES		

## PLC Setting:

Communication mode	9600 E,8,1, Station No=0
--------------------	--------------------------

## Device address:

Bit/Word	Device Type	Format	Range	Memo
Word	Communication No.	HHH	HHH:0~ 0FFF	Parameters and data memory
Bit	Comm.No.Bit	HHH(DD)	HHH(DD):0-FFF(15)	

## Wiring diagram:

### Pay Attention:

Before you connect the VF-A11, Make sure you have put two switch on of sw1.(SW1: Wiring method selector switch)



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## RS-485

**MT500 PLC[RS485]**  
9P D-SUB male

Toshiba VF-S11  
communication port

1	RX-		RXB
2	RX+		RXA
5	GND		SG



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[www.kepfrance.fr](http://www.kepfrance.fr)

# VIGOR

VIGOR M Series

<http://www.vigorplc.com.tw/>

## HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	VIGOR		
Com port	RS232	RS232, RS485 4wires,	
Baud rate	19200		
Parity bit	Even		
Data Bits	7		
Stop Bits	1		
HMI Station No.	0		
PLC Station No.	1		

## PLC Setting:

Communication mode	None

## Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ooo	0~177	
B	Y	ooo	0~177	
B	M	dddd	0~4095	
B	S	ddd	0~999	
B	T	ddd	0~255	
B	C	ddd	0~255	
W	TV	ddd	0~255	
W	CV	ddd	0~255	
W	D	dddd	0~4095	
W	DL	dddd	0~4095	Double word

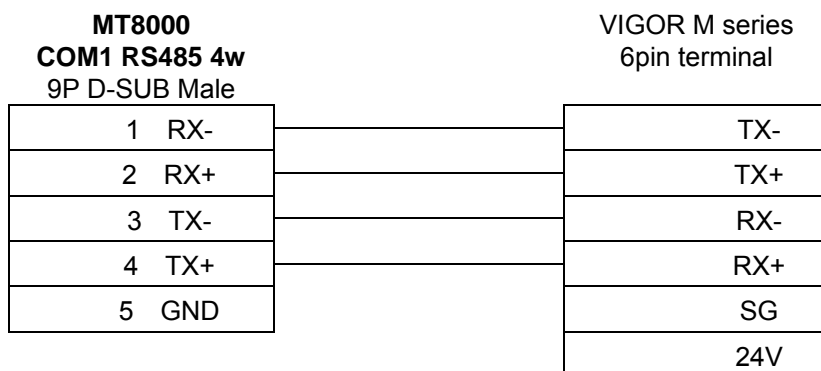


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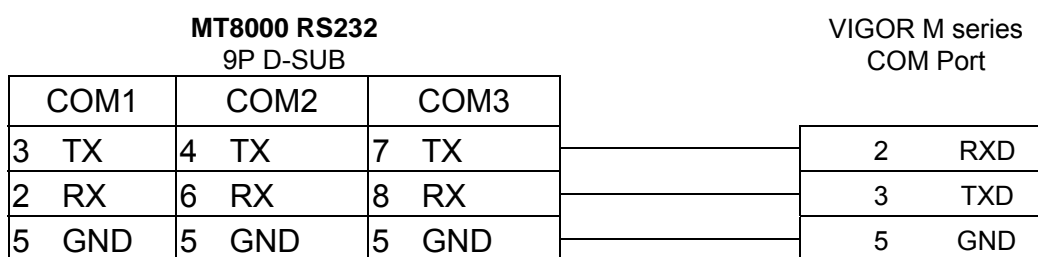
[www.kepfrance.fr](http://www.kepfrance.fr)

## Wiring diagram:

RS-485 4wire:



RS-232:



## Yokogawa FA-M3

FA-M3 CPU SP35-5N, SP55-5N CPU port, F3LC11 Computer Link module.

<http://www.yokogawa.com/itc/itc-index-en.htm>

### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Yokogawa FA-M3		
Com port	RS232		
Baud rate	19200	9600, 19200	
Parity Bit	Even	Even, Odd, None	
Data Bits	8	8	
Stop Bits	1	1	
HMI Station No.	0		
PLC Station No.	1	1-31	

### PLC Setting:

Communication mode	<b>Use Personal Communication Link</b> <b>Use checksum</b> <b>Use End Character</b>
--------------------	---

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ddd	201-71664(discontinuous)	
B	Y	ddd	201-71664(discontinuous)	
B	I	ddd	1-16384	
B	L	ddd	1-71024(discontinuous)	
B	M	ddd	1-9984	





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W	D	ddd	1-8192	
W	B	ddd	1-32768	
W	V	ddd	1-64	
W	W	ddd	1-71024(discontinuous)	
W	Z	ddd	1-512	

## Wiring diagram:

RS-232: CPU port

MT8000 RS232

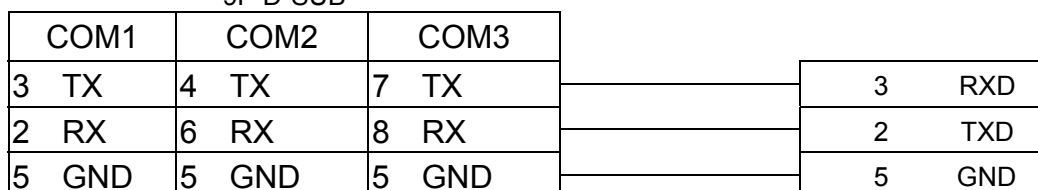
9P D-SUB

CPU port cable

KM11 RS-232

**MT8000 RS232**

9P D-SUB



RS-232: LC11

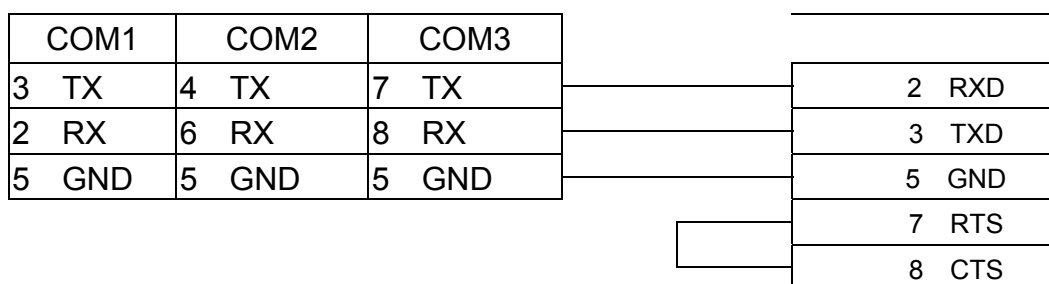
MT8000 RS232

9P D-SUB Female

LC11 Computer

Link module RS232

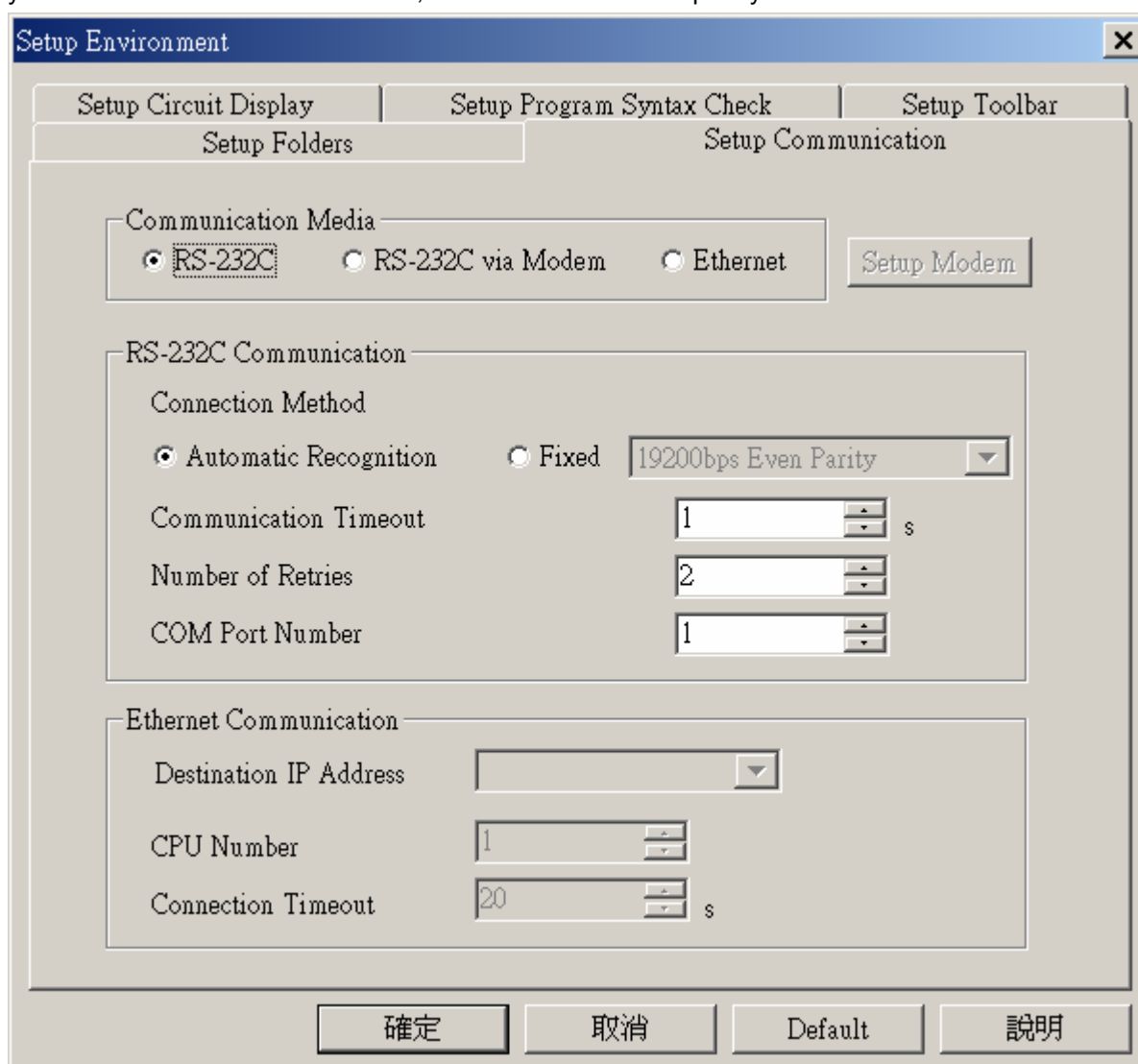
Port



## How to get the WideField communication setting

If you want get the WideField communication setting, select [Tool]->[Set Environment] default is Automatic. Using the Automatic Recognition, Wide Field software will connect the Current PLC and get the PLC communication setting. If you have know the PLC communication configuration,

you also can select the Fixed mode ,It will connect the PLC quickly.



P.S Because use Personal computer link, when you connecting to PLC it will delay about 20sec for test communication.

## How to Setting YOKOGAWA PLC Communcation configuration.

YOKOGAWA FA-M3

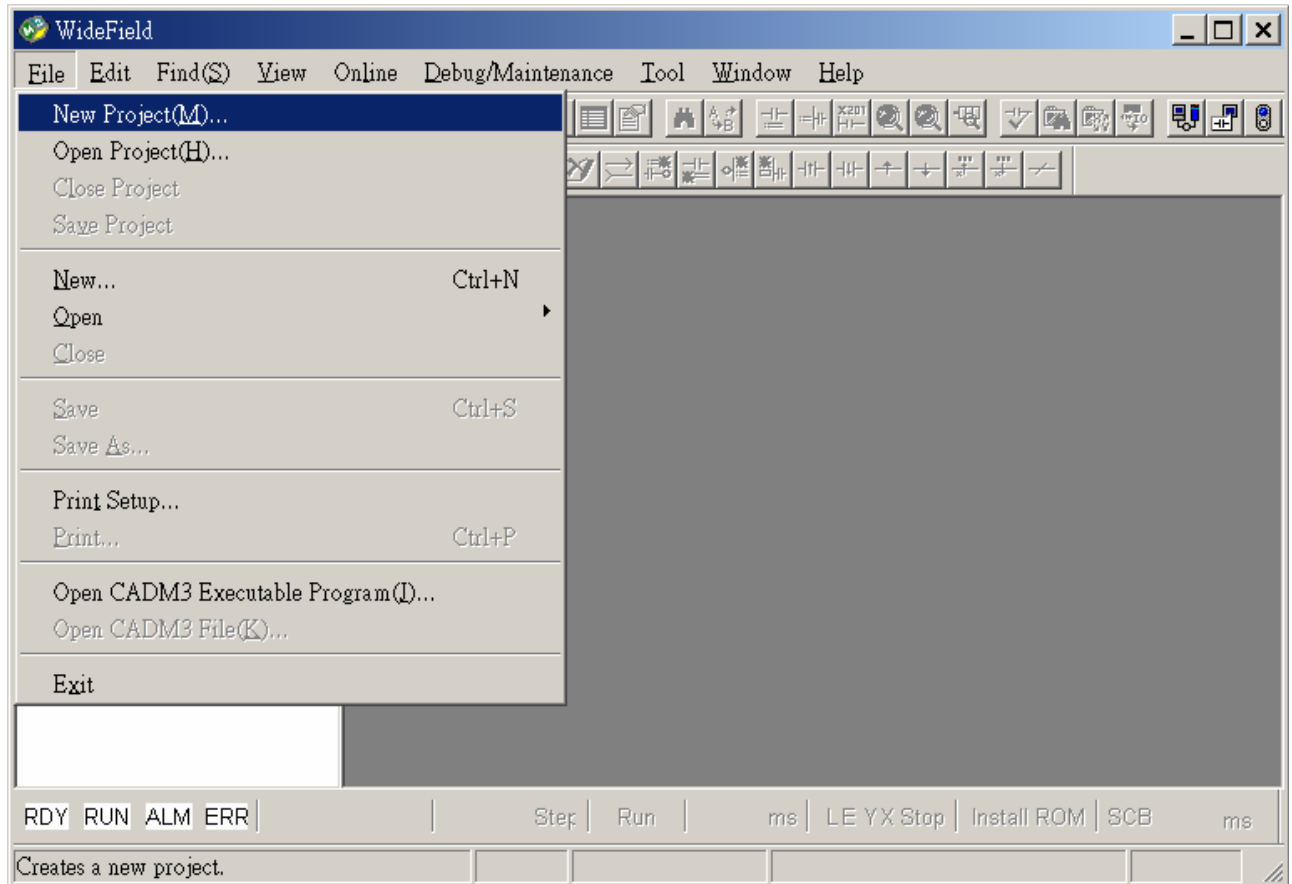
CPU SP55-5N (same SP35-5N)

[File]->[New Project] to create a new project

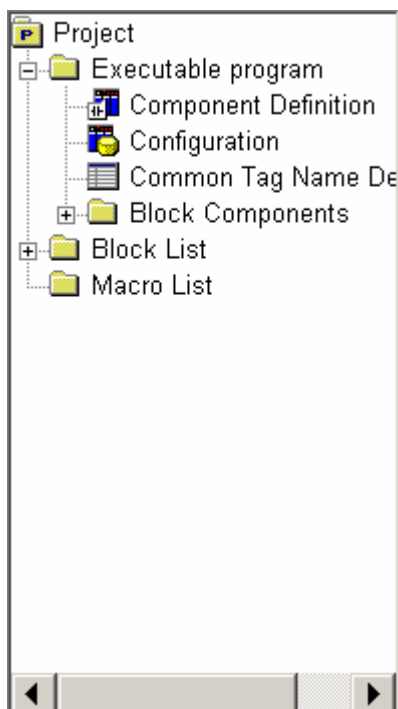


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click "Configuration" for setup communication.





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Configuration X

Device Capacities	Operation Control	Setup Initial Data	Setup DIO	Setup FA Link	Sampling Trace
Setup Communication	Setup ROM	Setup Interrupt	Power Failure/Local	Setup Shared Refreshing	

Communication Mode

9600bps Even Parity ▼

Setup CPU Personal Computer Link

☐ Use Personal Computer Link

☐ Checksum

☐ End Character

☐ Protection

確定

取消

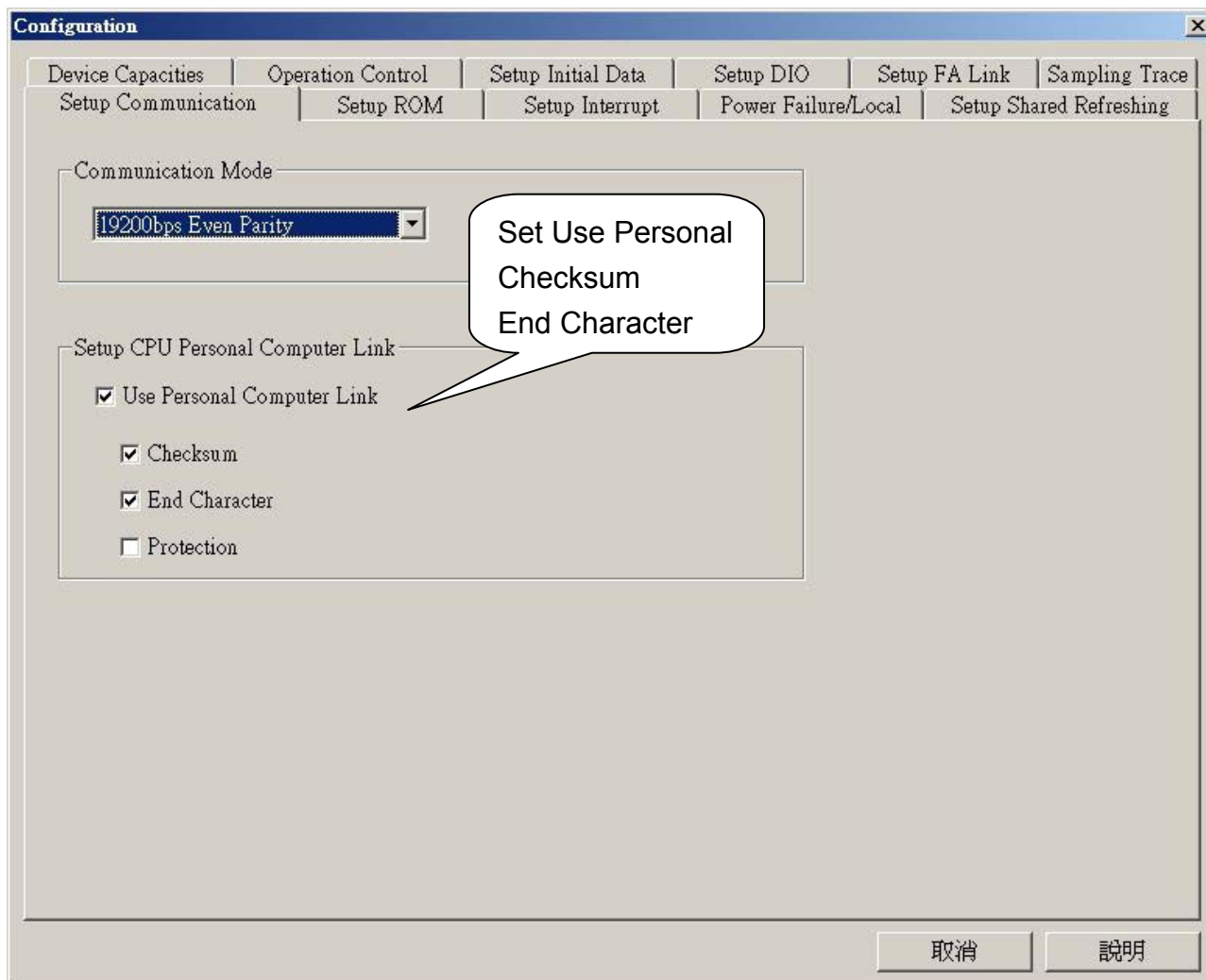
Default

説明



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[www.kepfrance.fr](http://www.kepfrance.fr)



## Yokogawa FA-M3 (Ethernet)

FA-M3 CPU SP35-5N, SP55-5N with F3LE01-5T/F3LE11-0T Ethernet module.

<http://www.yokogawa.com/itc/itc-index-en.htm>

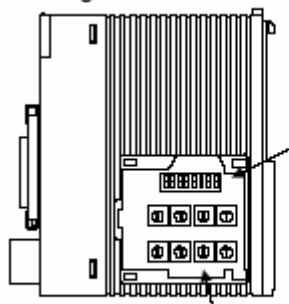
### HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	Yokogawa FA-M3 (Ethernet)		
Com port	Ethernet		
TCP port no.	12289		
HMI Station No.	0		
PLC Station No.	1		

### PLC Setting:

Communication mode	<b>Set IP Address</b> <b>Set all condition setup switch OFF.</b>
--------------------	---

Right-side View



Operating Condition Setup Switch

IP Address Setup Switch

Example: Setting the IP address to 192.168.250.210

0	8	A	2

Hexa	C0	A8	FA	D2
decimal	↑	↑	↑	↑
Decimal	192	168	250	210

### Device address:

Bit/Word	Device Type	Format	Range	Memo
B	X	ddd	201-71664(discontinuous)	
B	Y	ddd	201-71664(discontinuous)	
B	I	ddd	1-16384	
B	L	ddd	1-71024(discontinuous)	
B	M	ddd	1-9984	
W	D	ddd	1-8192	



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W	B	ddd	1-32768	
W	V	ddd	1-64	
W	W	ddd	1-71024(discontinuous)	
W	Z	ddd	1-512	

## Wiring diagram:

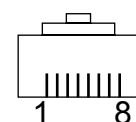
Ethernet:

**MT8000 Ethernet RJ45 Wire color**

1	TX+	White/Orange
2	TX-	Orange
3	RX+	White/Green
4	BD4+	Blue
5	BD4-	White/Blue
6	RX-	Green
7	BD3+	White/Brown
8	BD3-	Brown

**Ethernet Hub or Switch RJ45**

1	RX+
2	RX-
3	TX+
4	BD4+
5	BD4-
6	TX-
7	BD3+
8	BD3-



RJ45

Ethernet: Direct connect (crossover cable)

**MT8000 Ethernet RJ45 Wire color**

1	TX+	White/Orange
2	TX-	Orange
3	RX+	White/Green
4	BD4+	Blue
5	BD4-	White/Blue
6	RX-	Green
7	BD3+	White/Brown
8	BD3-	Brown

**FA-M3 Ethernet module RJ45**

3	RX+
6	RX-
1	TX+
4	BD4+
5	BD4-
2	TX-
7	BD3+
8	BD3-