

## Mitsubishi FX232/485BD

Supported Series: Mitsubishi FX0N/FX2/FX2N COM for Communication Module BD  
 FX2N-485-BD, FX2N-232-BD, FX1N-485-BD, FX1N-232-BD & FX3U-485ADP.

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

### HMI Setting:

Parameters	Recommended	Options	Notes
<b>PLC type</b>	Mitsubishi FX232/485BD		
<b>PLC I/F</b>	RS232/RS485	RS232/RS485 2w/4w	in accordance with the BD module
<b>Baud rate</b>	19200	9600/19200/38400	
<b>Data bits</b>	7	7,8	
<b>Parity</b>	Even	Even, Odd, None	
<b>Stop bits</b>	1	1,2	
<b>PLC sta. no.</b>	1	0-15	

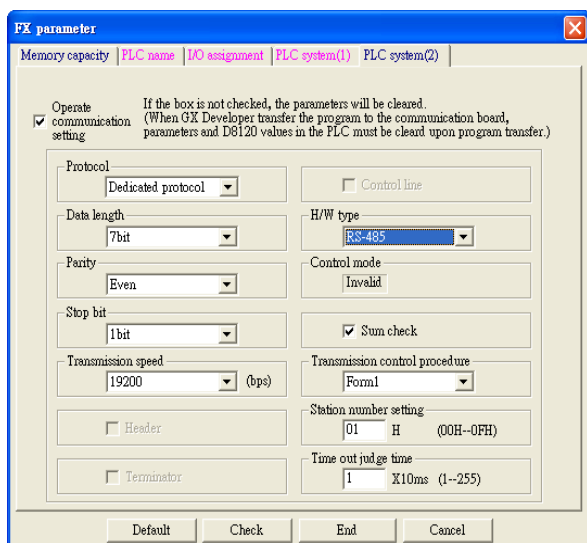
Note: It is recommended to set turn around delay to 8. (For RS485 2W)

<b>Online simulator</b>	YES	<b>Extend address mode</b>	YES
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### PLC Setting:

<b>Communication mode</b>	Must set PLC station when using BD Module.
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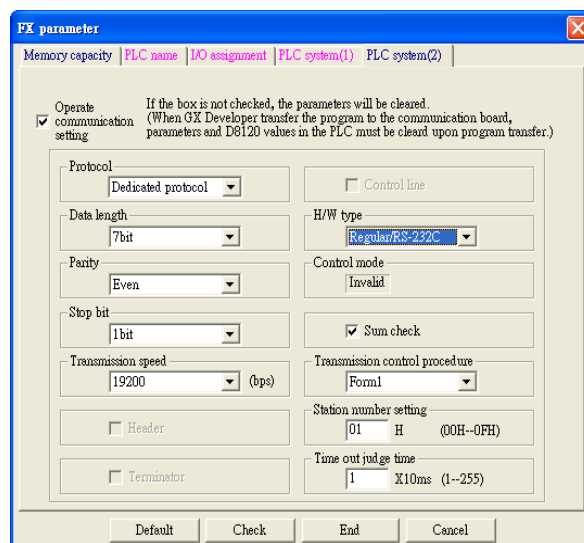
Register D8120 setting: set b9 and b8 of BFM#0 to 0.



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

- 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 D8120 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:
- H/W type: RS-485
- Control mode: Invalid
- Sum check:
- Transmission control procedure: Form1
- Station number setting: 01 H (00H-0FH)
- Time out judge time: 1 X10ms (1-255)

FX2N-485-BD, FX1N-485-BD



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

- 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 D8120 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:
- H/W type: Regular/RS-232C
- Control mode: Invalid
- Sum check:
- Transmission control procedure: Form1
- Station number setting: 01 H (00H-0FH)
- Time out judge time: 1 X10ms (1-255)

FX2N-232-BD, FX1N-232-BD

## Device Address:

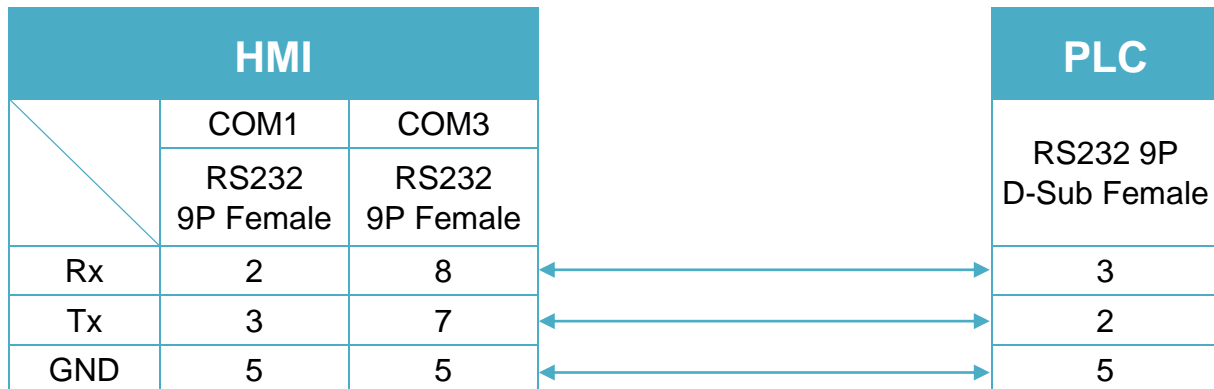
Bit/Word	Device type	Format	Range	Memo
B	X	OOO	0 ~ 377	Input Relay
B	Y	OOO	0 ~ 377	Output Relay
B	M	DDDD	0 ~ 7999	Auxiliary Relay
B	T	DDD	0 ~ 511	Timer Relay
B	C	DDD	0 ~ 255	Counter Relay
B	SM	DDDD	8000 ~ 9999	Special Auxiliary Relay
B	D_Bit	DDDDh	0 ~ 7999f	Data Register Bit
B	S	DDDD	0 ~ 4095	State Relay
W	TV	DDD	0 ~ 511	Timer Memory
W	CV	DDD	0 ~ 199	Counter Memory
W	D	DDDD	0 ~ 7999	Data Register
W	CV2	DDD	200 ~ 255	Counter Memory(D Word)
W	SD	DDDD	8000 ~ 9999	Special Data Register
W	R	DDDDD	0 ~ 32767	Extended Register

## Wiring Diagram:

Communication Module RS232-BD (Diagram 1 ~ Diagram 3)

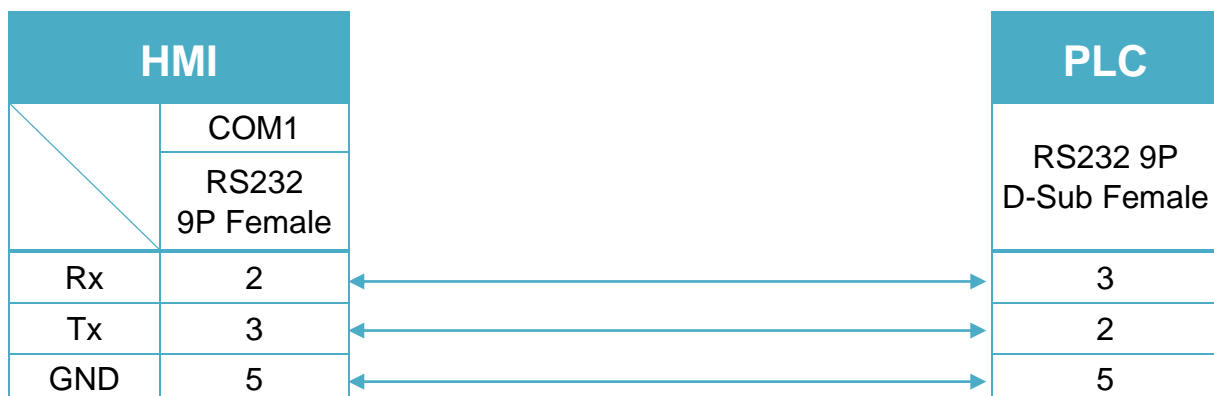
### Diagram 1

<b>cMT Series</b>	<b><i>cMT3071 / cMT3072 / cMT3090 / cMT3103 / cMT3151</i></b>
<b>eMT Series</b>	<b><i>eMT3070 / eMT3105 / eMT3120 / eMT3150</i></b>
<b>MT-iE</b>	<b><i>MT8073iE / MT8102iE</i></b>
<b>MT-XE</b>	<b><i>MT8092XE</i></b>
<b>MT-iP</b>	<b><i>MT6103iP / MT8102iP</i></b>



### Diagram 2

<b>cMT Series</b>	<b><i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</i></b>
<b>mTV</b>	<b><i>mTV</i></b>
<b>MT-iE</b>	<b><i>MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE / MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i></b>
<b>MT-XE</b>	<b><i>MT8121XE / MT8150XE / MT8090XE</i></b>



### Diagram 3

**MT-iE** *MT8050iE / MT8053iE*

**MT-iP** *MT6051iP / MT8051iP / MT6071iP / MT8071iP*



Communication Module RS485BD: RS485 4W (Diagram 4 ~ Diagram 7)

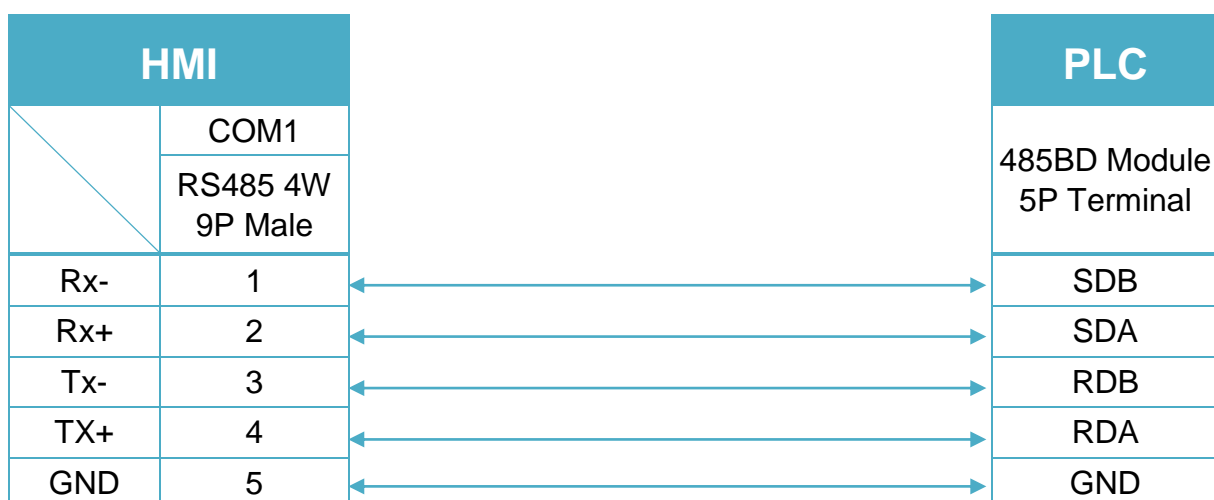
### Diagram 4

**cMT Series** *cMT3151*

**eMT Series** *eMT3070 / eMT3105 / eMT3120 / eMT3150*

**MT-iE** *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

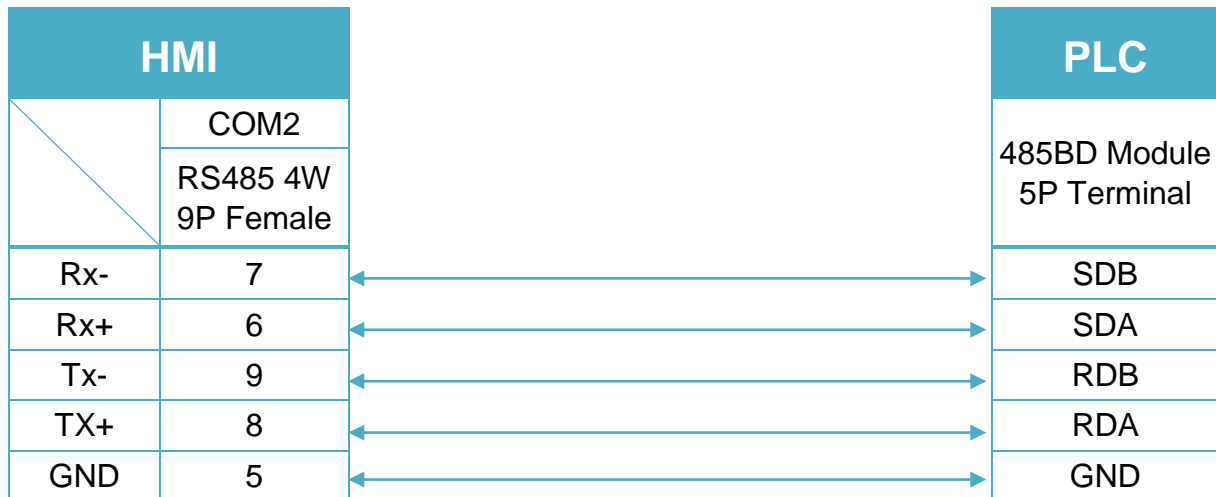
**MT-XE** *MT8121XE / MT8150XE*



## Diagram 5

**cMT Series**                      *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*

**mTV**                                *mTV*



## Diagram 6

**cMT Series**                      *cMT3071 / cMT3072 / cMT3090 / cMT3103*

**MT-iE**                                *MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE /  
MT8101iE / MT8102iE / MT8103iE*

**MT-XE**                                *MT8090XE / MT8092XE*

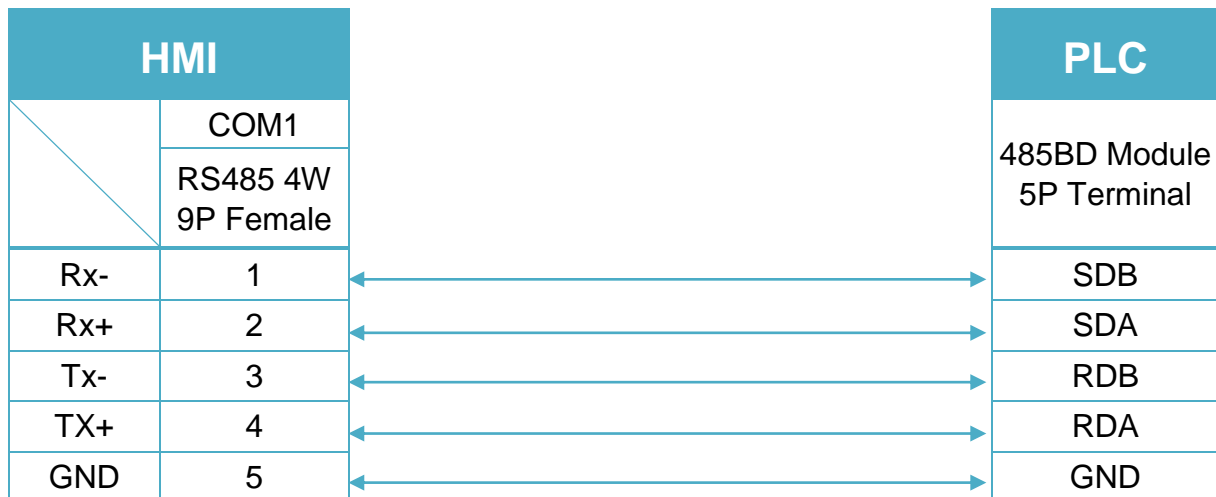
**MT-iP**                                *MT6071iP / MT8071iP / MT6103iP / MT8102iP*



## Diagram 7

**MT-iE**                      *MT8050iE / MT8053iE*

**MT-iP**                      *MT6051iP / MT8051iP*

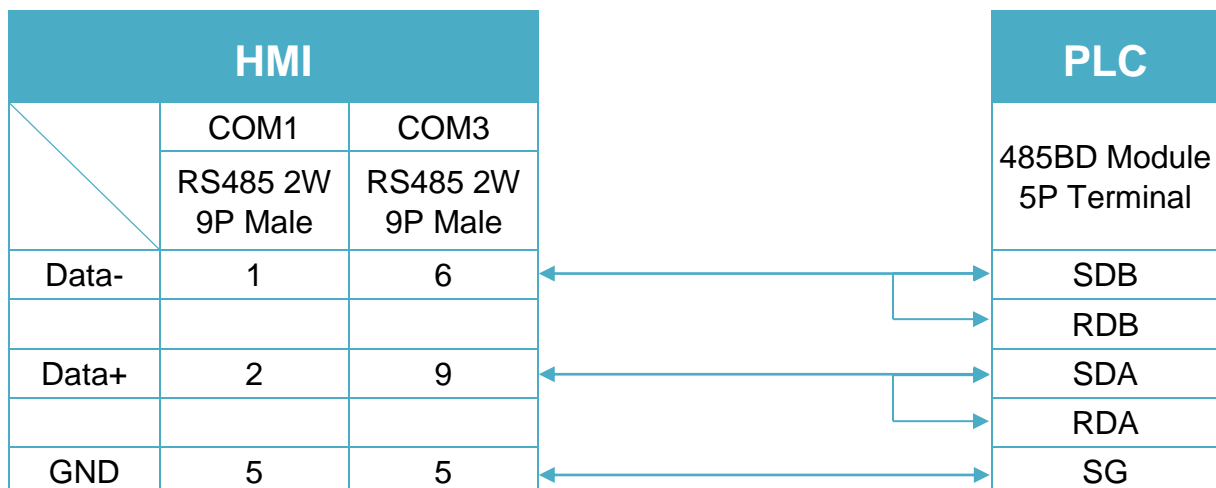


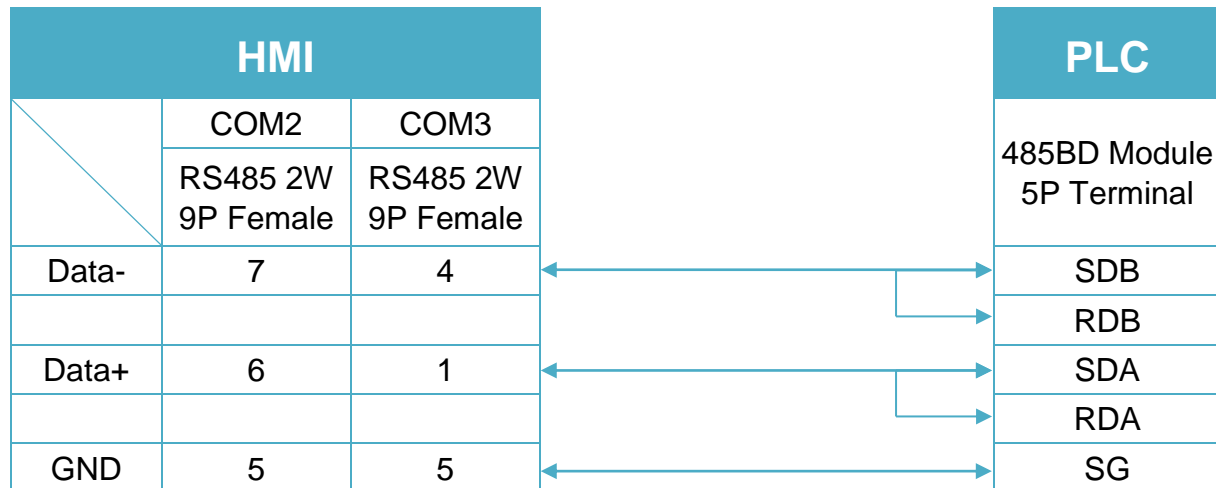
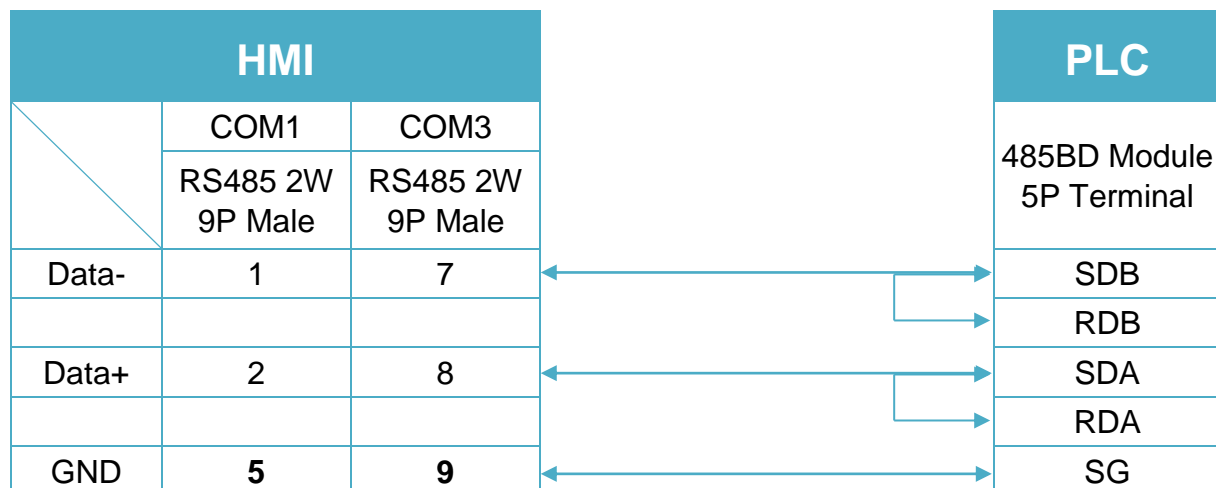
Communication Module RS485BD: RS485 2W (Diagram 8 ~ Diagram 13)

## Diagram 8

**cMT Series**                      *cMT3151*

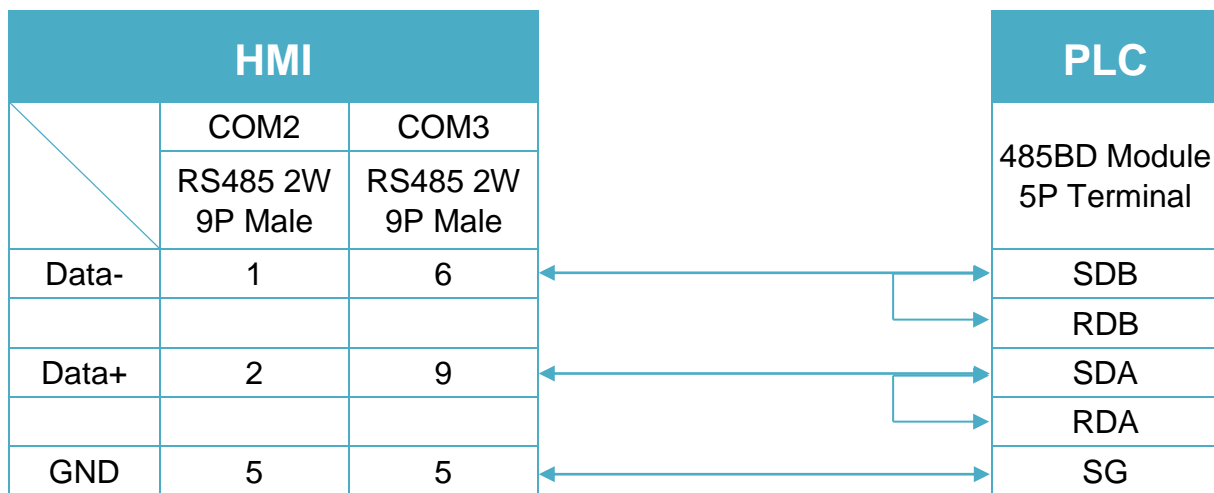
**eMT Series**                      *eMT3070 / eMT3105 / eMT3120 / eMT3150*



**Diagram 9**
**cMT Series**                      *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*
**mTV**                                *mTV*

**Diagram 10**
**MT-iE**                                *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*
**MT-XE**                                *MT8121XE / MT8150XE*


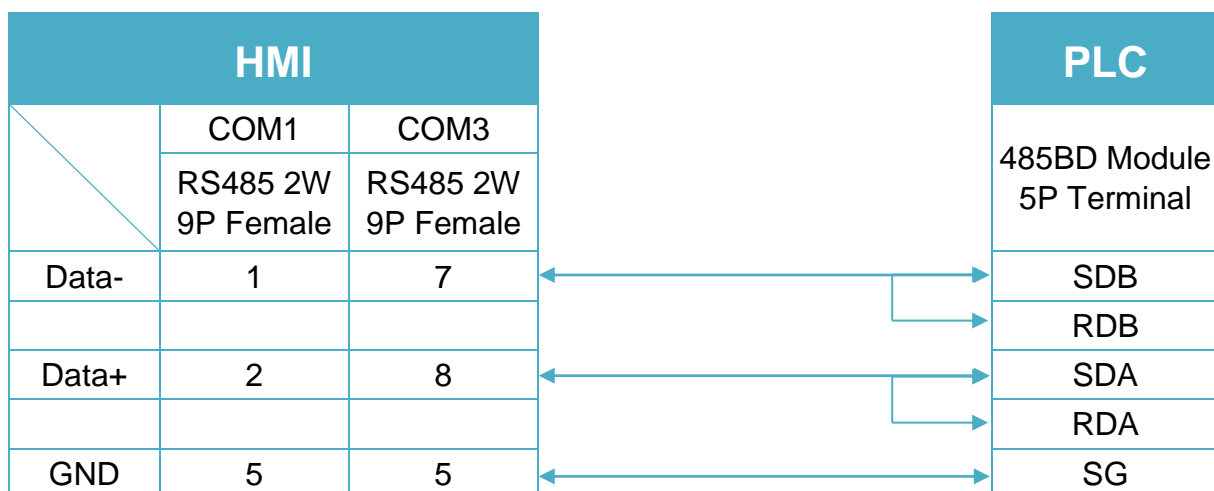
## Diagram 11

<b>cMT Series</b>	<b><i>cMT3071 / cMT3072 / cMT3090 / cMT3103</i></b>
<b>MT-iE</b>	<b><i>MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE</i></b>
<b>MT-XE</b>	<b><i>MT8090XE / MT8092XE</i></b>
<b>MT-iP</b>	<b><i>MT6103iP / MT8102iP</i></b>



## Diagram 12

<b>MT-iE</b>	<b><i>MT8050iE / MT8053iE</i></b>
<b>MT-iP</b>	<b><i>MT6051iP / MT8051iP</i></b>





## Diagram 13

**MT-iP**
***MT6071iP / MT8071iP***
