

CD MODBUS RTU

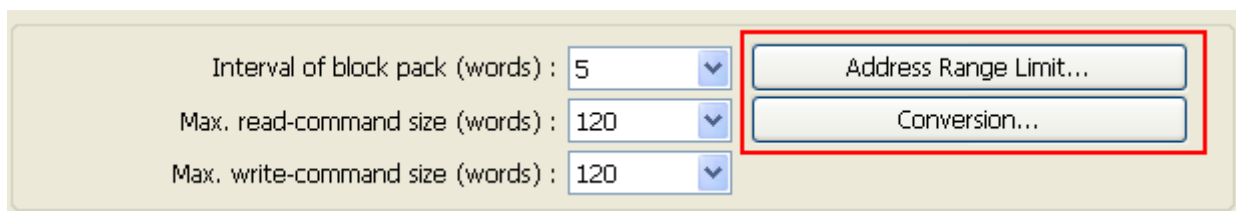
Supported Series : REVO-CL / REVO-M / REVO E / CD3000E / MULTIDRIVE / REVO-TC / REVO-PC

Website : <http://www.cdautomation.com/>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	CD MODBUS RTU		
PLC I/F	RS485	RS232/RS485	
Baud rate	9600	9600~115200	
Data bits	8	7, 8	
Parity	Even	Even, Odd, None	
Stop bits	1	1, 2	
PLC sta. no.	1	0-255	

Online simulator	YES	Broadcast	YES
Extend address mode	YES		



Interval of block pack (words) : 5

Max. read-command size (words) : 120

Max. write-command size (words) : 120

Address Range Limit...

Conversion...

[Address Range Limit]

The address range of 0x, 1x, and 0x_multi_coils device types can be set.

[Conversion]

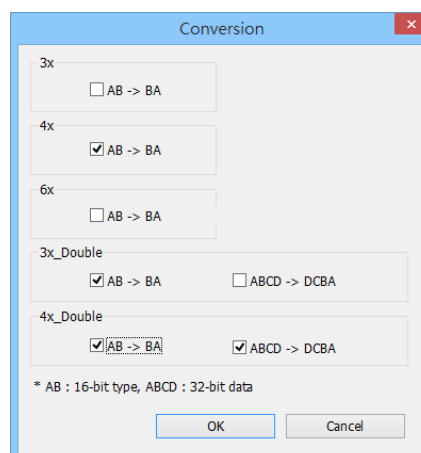
The 3x_Double and 4x_Double address types are added. If [ABCD ->CDAB] check box is selected, please select 3x_Double and 4x_Double address types.

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	0x	DDDDD	1 ~ 65535	Output bit
B	0x_multi_coils	DDDDD	1 ~ 65535	Write multiple coils
B	0x_single_Bit	DDDDD	1 ~ 65535	
B	1x	DDDDD	1 ~ 65535	Input bit (read only)
B	1x_single_Bit	DDDDD	1 ~ 65535	
B	3x_Bit	DDDDDdd	100 ~ 6553515	Input Register bit (read
B	4x_Bit	DDDDDdd	100 ~ 6553515	Output Register bit
B	6x_Bit	DDDDDdd	100 ~ 6553515	Output Register bit
B	0x_1 ~ 0x_9	DDDDD	1 ~ 65535	
B	1x_1 ~ 1x_9	DDDDD	1 ~ 65535	
W	3x	DDDDD	1 ~ 65535	Input Register (read only)
W	3x_MAX1W	DDDDD	1 ~ 65535	Display 32 bits *Note1
DW	3x_MAX2W	DDDDD	1 ~ 65535	*Note1
DW	3x_Double	DDDDD	1 ~ 65535	*Note2
W	4x	DDDDD	1 ~ 65535	Output Register
W	4x_MAX1W	DDDDD	1 ~ 65535	Display 32 bits *Note1
DW	4x_MAX2W	DDDDD	1 ~ 65535	*Note1
DW	4x_Double	DDDDD	1 ~ 65535	*Note2
W	4x_32Bit	DDDDD	1 ~ 65535	Output Register *Note1
DW	5x	DDDDD	1 ~ 65535	4x double word swap
W	6x	DDDDD	1 ~ 65535	4x single word write

Note1: MAX1W and 4X_32Bit read/write 1 word for each package and display a 32-bits value, whereas MAX2W reads/write 2 words for each package.

Note2: Go the [System Parameter Settings] -> [Device Properties] and click [Conversion] to set the data format of device types 3x, 4x, 6x, 3x_double, 4x double.



NOTE:

Address type “5x” is mapping to Hold Reg. The communication protocol of 5x is almost the same as “4x” except that “5x” swaps double word.

If 4x contains the 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 will be:

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
0x_multi_coils	0x01	Read coil	0x0f	write multiple coils
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 registers
5x	0x03	Read holding register	0x10	write multiple registers

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

Wiring Diagram:

RS-485 2W 9P D-Sub (Diagram 1 ~ Diagram 6)

Diagram 1

cMT Series

cMT3151

eMT Series

eMT3070 / eMT3105 / eMT3120 / eMT3150

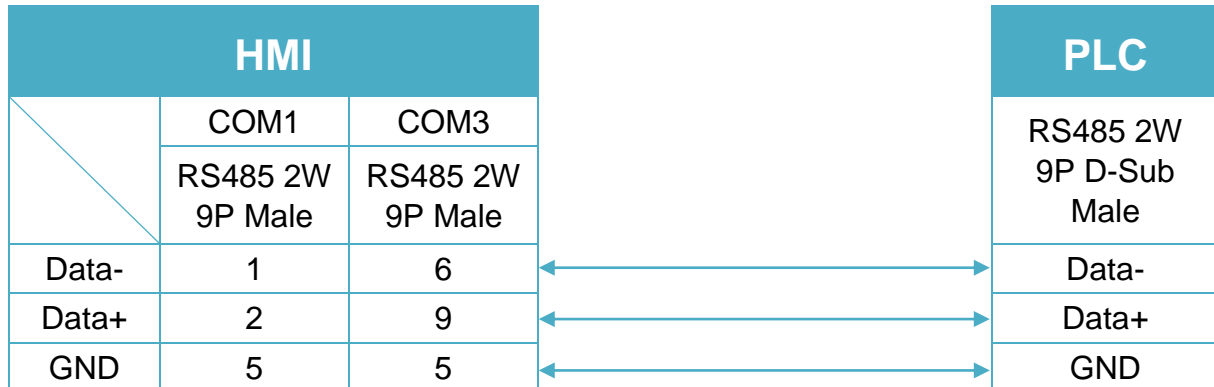


Diagram 2

cMT Series

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

mTV

mTV

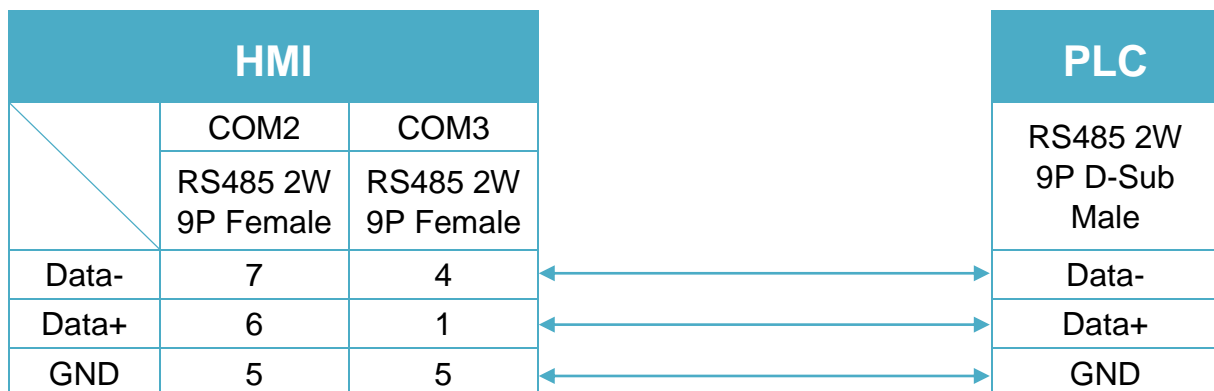


Diagram 3

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

MT-XE *MT8121XE / MT8150XE*

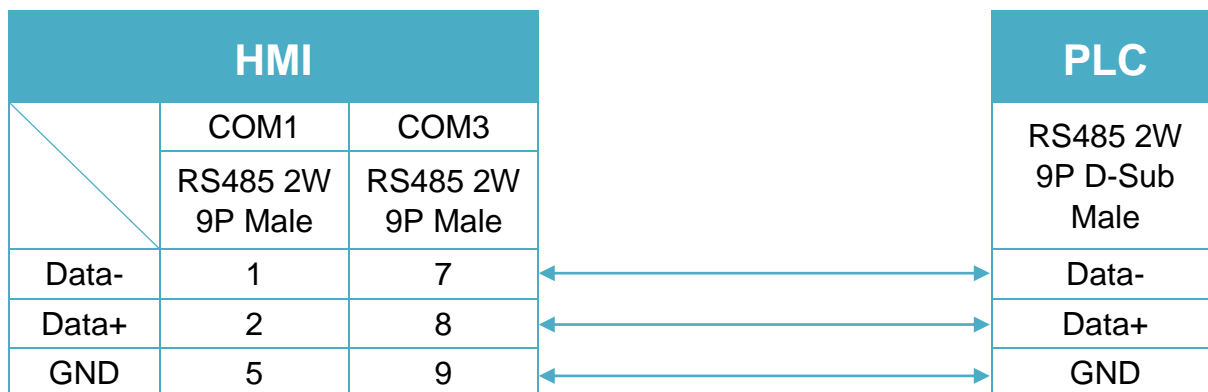


Diagram 4

cMT Series *cMT3071 / cMT3072 / cMT3090 / cMT3103*

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

MT-XE *MT8090XE / MT8092XE*

MT-iP *MT6103iP / MT8102iP*

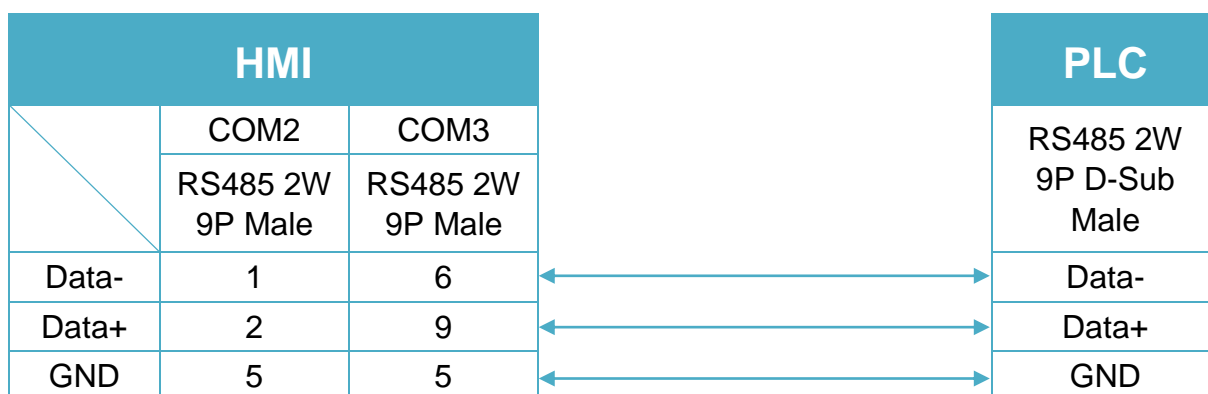


Diagram 5

MT-iE *MT8050iE / MT8053iE*

MT-iP *MT6051iP / MT8051iP*

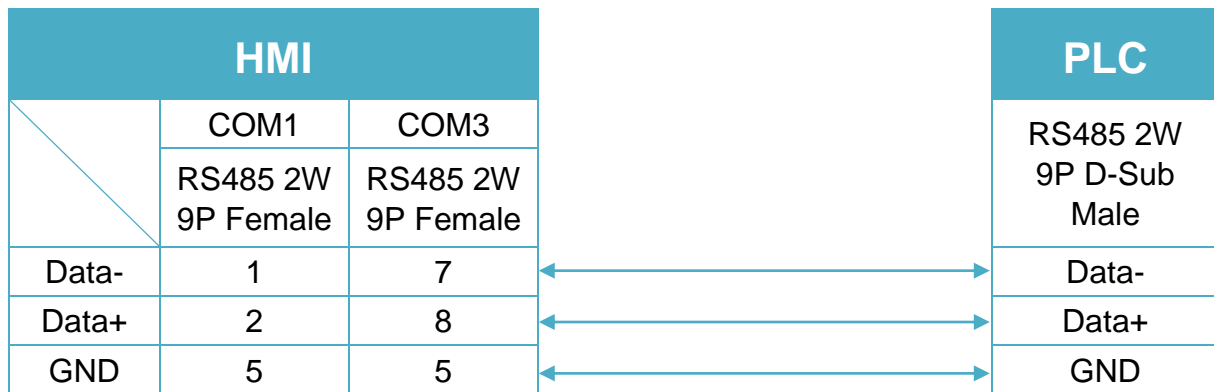


Diagram 6

MT-iP *MT6071iP / MT8071iP*

