

IDEC MicroSmart

Supported Series: IDEC MicroSmart, SmartAxis series

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

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	IDEC MicroSmart		
PLC I/F	RS232	RS232, RS485, Ethernet	
Baud rate	9600	9600, 19200	
Data bits	7	7, 8	
Parity	Even	Even, Odd, None	
Stop bits	1	1	
PLC sta. no.	255 (for 1:1 connect)	0-255	255 or same as the PLC setting

Online simulator	YES	
Extend address mode	YES	Do not set the PLC Station No. to 255

PLC Setting:

Communication mode	9600, E, 7, 1 (default), Use Computer Link Protocol
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I	DDDDo	0 ~ 20477	Input (I)
B	Q	DDDDo	0 ~ 20477	Output (Q)
B	M	DDDDo	0 ~ 20477	Internal Relay (M)
B	R	DDDD	0 ~ 2047	Shift Register (R)
B	T	DDDD	0 ~ 2047	Timer (T)
B	C	DDDD	0 ~ 2047	Counter (C)
W	TP	DDDD	0 ~ 9999	Timer Preset
W	CP	DDDD	0 ~ 9999	Counter Preset
W	D	DDDD	0 ~ 9999	Data Register (D)
W	TC	DDDD	0 ~ 9999	Timer Current
W	CC	DDDD	0 ~ 9999	Counter Current

Wiring Diagram:

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



MicroSmart , SmartAxis CPU Ladder Port (Diagram 1 ~ Diagram 3)

Diagram 1

cMT Series *cMT3071 / cMT3072 / cMT3090 / cMT3103 / cMT3151*

eMT Series *eMT3070 / eMT3105 / eMT3120 / eMT3150*

MT-iE *MT8073iE / MT8102iE*

MT-XE *MT8092XE*

MT-iP *MT6103iP / MT8102iP*

HMI				PLC
	COM1	COM3		Port1 or Port2 8P Mini-DIN Male
	RS232 9P Female	RS232 9P Female		
Rx	2	8	←→	3
Tx	3	7	←→	4
GND	5	5	←→	7

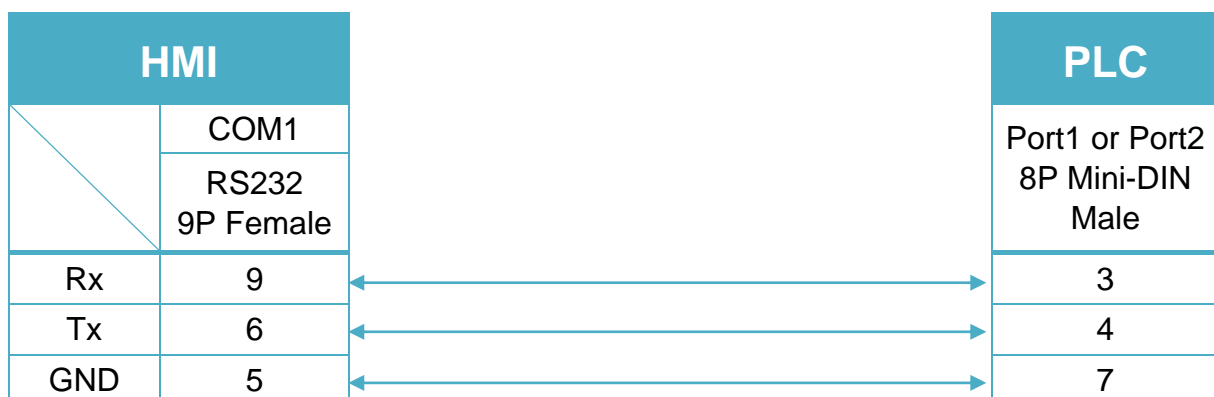
Diagram 2

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



Diagram 3

MT-iE	<i>MT8050iE / MT8053iE</i>
MT-iP	<i>MT6051iP / MT8051iP / MT6071iP / MT8071iP</i>



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



MicroSmart, SmartAxis with FC4A-PC2 RS485 Communication Adapter (Diagram 4 ~ Diagram 9)

Diagram 4

cMT Series

cMT3151

eMT Series

eMT3070 / eMT3105 / eMT3120 / eMT3150

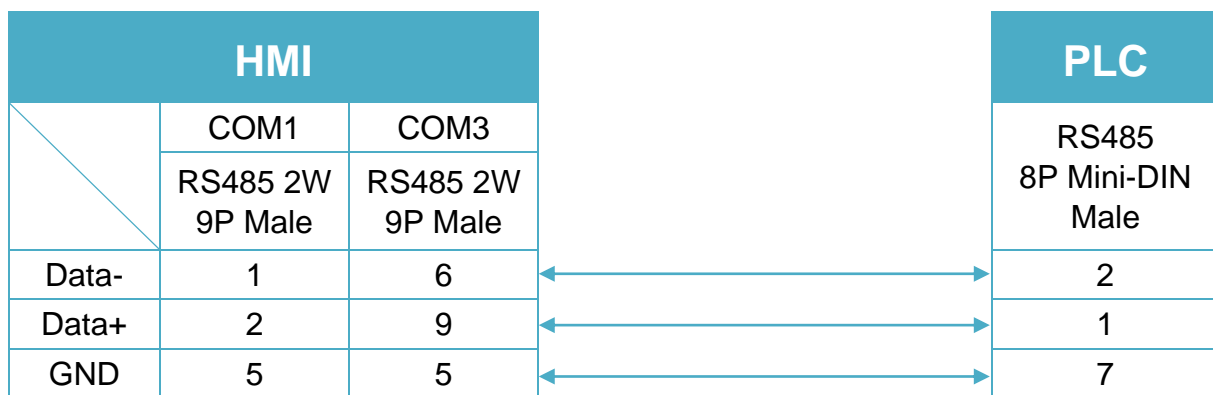


Diagram 5

cMT Series

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

mTV

mTV

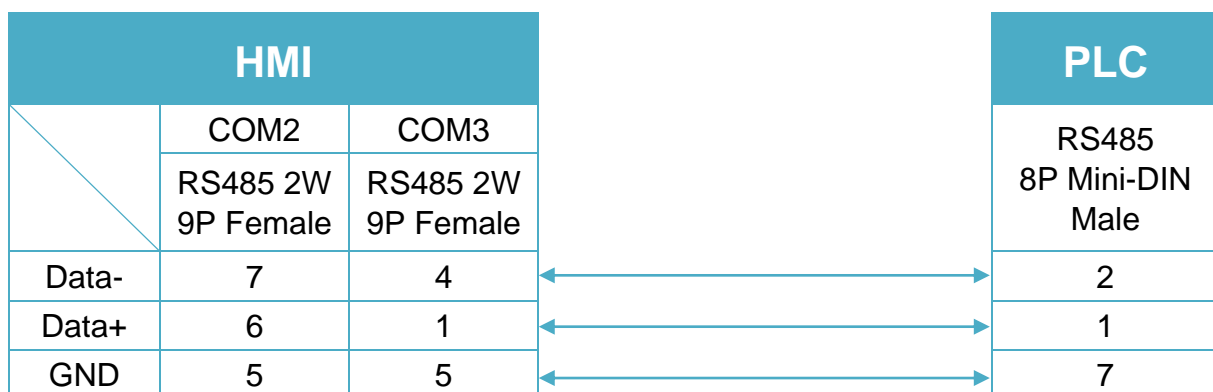
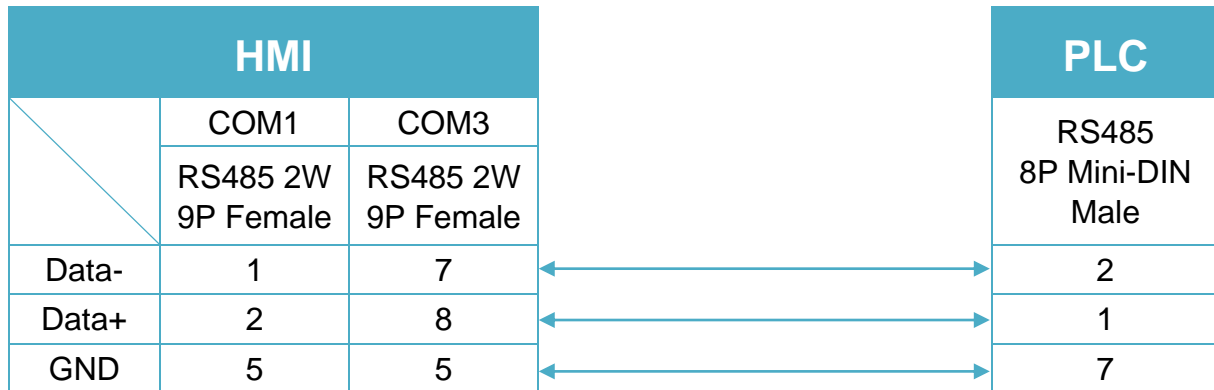
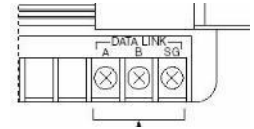


Diagram 8
MT-iE *MT8050iE / MT8053iE*
MT-iP *MT6051iP / MT8051iP*

Diagram 9
MT-iP *MT6071iP / MT8071iP*


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



MicroSmart, SmartAxis with FC4A-PC3 RS485 Communication Adapter (Diagram 10 ~ Diagram 15)

Diagram 10

cMT Series	<i>cMT3151</i>
eMT Series	<i>eMT3070 / eMT3105 / eMT3120 / eMT3150</i>

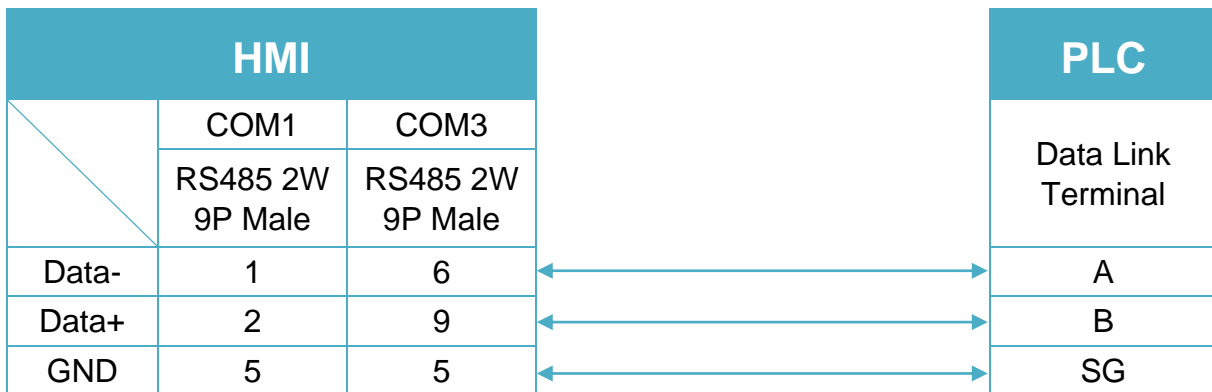


Diagram 11

cMT Series	<i>cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD</i>
mTV	<i>mTV</i>

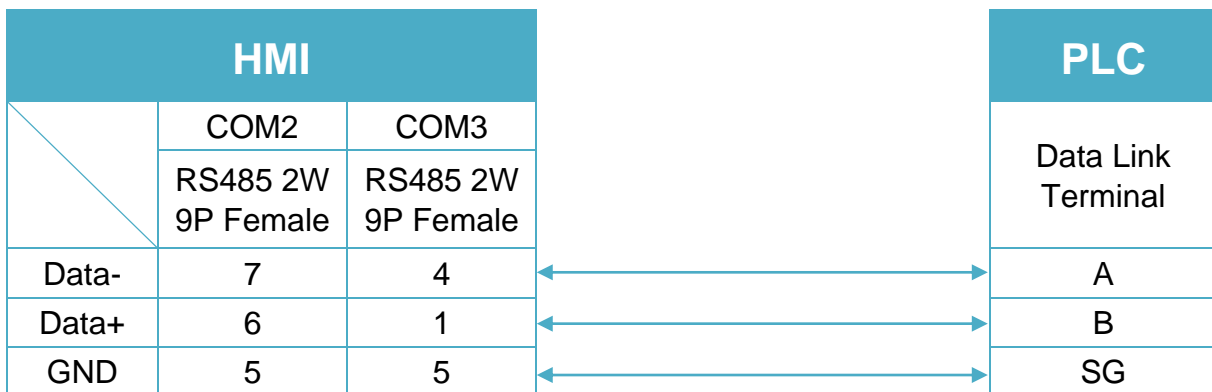


Diagram 14

MT-iE *MT8050iE / MT8053iE*

MT-iP *MT6051iP / MT8051iP*

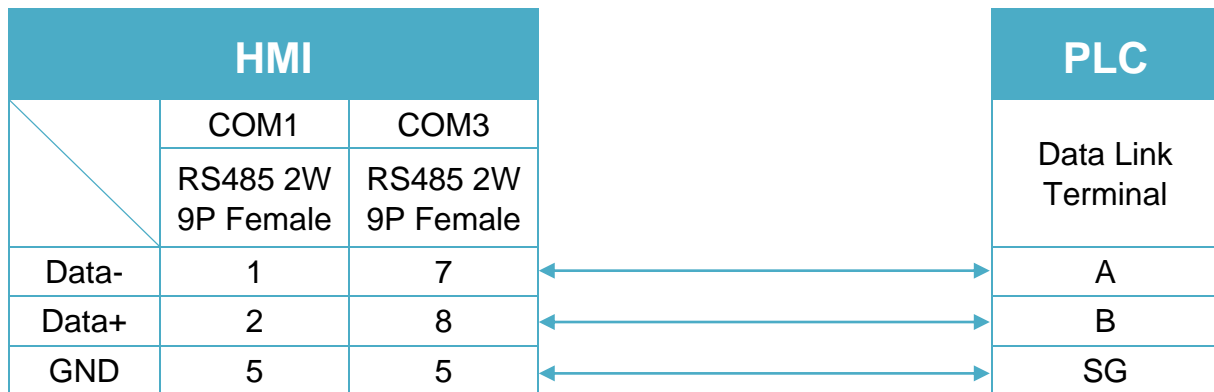


Diagram 15

MT-iP *MT6071iP / MT8071iP*



Diagram 16

Ethernet cable:

