

Rockwell DH485

Supported Series: Rockwell MicroLogix 1000, 1100, 1200, 1500, SLC 5/03, 5/04, 5/05.

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

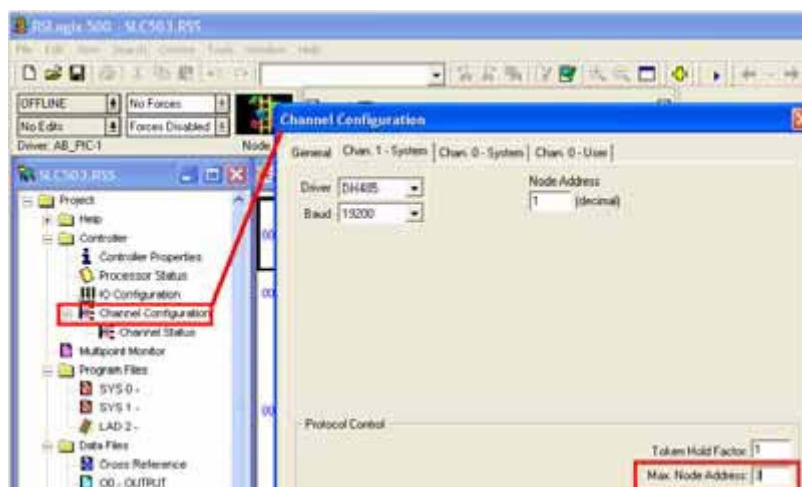
HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Allen-Bradley DH485		
PLC I/F	RS485 2W	RS232	
Baud rate	19200	9600, 19200	
Data bits	8		
Parity	Even		
Stop bits	1		
HMI sta. no.	0	2	
PLC sta. no.	1	1-31	

Online simulation	YES
Extend address mode	NO

PLC Setting:

Communication mode	DH485 protocol 19200 (default) Set the Max. Node Address to the number of PLCs in use.
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I1	DDDdd	0 ~ 25515	Input (I)
B	O0	DDDdd	0 ~ 25515	Output (O)
B	B3	DDDdd	0 ~ 25515	Bit data file (B3)
B	B10 ~ 13	DDDdd	0 ~ 25515	Bit data file (B10 ~ 13)
B	Bfn	FFFDDDDdd	0 ~ 25525515	Bit data file (B3, 10 ~ 254)
B	NfnBit	FFFDDDDdd	0 ~ 25525515	Integer data file bit level (N7,10 ~ 254)
B	S_Bit	DDDdd	0 ~ 25515	Status file
W	T4SV	DDD	0 ~ 255	Timer Preset Value (T4)
W	T4PV	DDD	0 ~ 255	Timer Accumulator Value (T4)
W	C5SV	DDD	0 ~ 255	Counter Preset Value (C5)
W	C5PV	DDD	0 ~ 255	Counter Accumulator Value (C5)
W	TfnSV	FFFDDD	0 ~ 255255	Timer Preset Value
W	TfnPV	FFFDDD	0 ~ 255255	Timer Accumulator Value
W	CfnSV	FFFDDD	0 ~ 255255	Counter Preset Value
W	CfnPV	FFFDDD	0 ~ 255255	Counter Accumulator Value
W	F8	DDD	0 ~ 255	Floating point data file (F8)
W	N7	DDD	0 ~ 255	Integer data file (N7)
W	N10 ~ 15	DDD	0 ~ 255	Integer data file (N10 ~ 15)
W	Nfn	FFFDDD	0 ~ 255255	Integer data file (N7,10 ~ 254)
W	S	DDD	0 ~ 255	Status file




Wiring Diagram:

The following represents the cable end connector.




RS-485: SLC500 Fixed type, SLC5/01, 02, 03 CH1.

HMI can't connect to 1747-AIC peripheral port.




eMT3000 series

COM1 RS485 2W 9P D-Sub Male	COM3 RS485 2W 9P D-Sub Male		AB SLC500 DH485 RJ8 Male
1 RX-	6 Data-		2 SDB
2 RX+	9 Data+		1 SDA
5 GND	5 GND		7 GND
			

MT6000/8000 series except MT6050i/MT8050i




COM1 RS485 2W 9P D-Sub Male	COM3 RS485 2W 9P D-Sub Male		AB SLC500 DH485 RJ8 Male
1 RX-	6 Data-		2 SDB
2 RX+	9 Data+		1 SDA
5 GND	5 GND		7 GND
			

MT6050i/MT8050i





COM1 RS485 2W 9P D-Sub Female	COM3 RS485 2W 9P D-Sub Female		AB SLC500 DH485 RJ8 Male
1 RX-	7 Data-		2 SDB
2 RX+	8 Data+		1 SDA
5 GND	5 GND		7 GND
			

9P D-Sub to 8P Mini-DIN: MicroLogix 1000, 1100, 1200, and 1500 must set DH485 protocol.



eMT3000 series

COM1 RS232 9P D-Sub Female	COM3 RS232 9P D-Sub Female		MicroLogix RS232 8P Mini-DIN Male
2 RX	8 RX		7 TXD
3 TX	7 TX		4 RXD
5 GND	5 GND		2 GND
			

MT6000/8000 series except MT6050i/MT8050i




COM1 RS232 9P D-Sub Female	COM2 RS232 9P D-Sub Female	COM3 RS232 9P D-Sub Male	MicroLogix RS232 8P Mini-DIN Male
2 RX	6 RX	8 RX	7 TXD
3 TX	4 TX	7 TX	4 RXD
5 GND	5 GND	5 GND	2 GND
			

MT6050i/MT8050i





COM1 RS232 9P D-Sub Female			MicroLogix RS232 8P Mini-DIN Male
9 RX			7 TXD
6 TX			4 RXD
5 GND			2 GND
			

9P D-Sub to 9P D-Sub: SLC5/03, 04, 05 CH0 must set DH485 protocol.



eMT3000 series

COM1 RS232 9P D-Sub Female	COM3 RS232 9P D-Sub Female		AB CPU CH0 RS232 9P D-Sub Female
2 RX	8 RX		3 TD
3 TX	7 TX		2 RD
5 GND	5 GND		5 GND
			

MT6000/8000 series except MT6050i/MT8050i

COM1 RS232 9P D-Sub Female	COM2 RS232 9P D-Sub Female	COM3 RS232 9P D-Sub Male	AB CPU CH0 RS232 9P D-Sub Female
2 RX	6 RX	8 RX	3 TD
3 TX	4 TX	7 TX	2 RD
5 GND	5 GND	5 GND	5 GND
			

MT6050i/MT8050i

COM1 RS232 9P D-Sub Female			AB CPU CH0 RS232 9P D-Sub Female
9 RX			3 TD
6 TX			2 RD
5 GND			5 GND
			

Driver Version:

Version	Date	Description
V1.20	Apr/17/2009	