Parker Compax3

Supported Series: Parker Compax3 Servo Drive.
Website: http://www.parker.com

HMI Setting:

RS232

Parameters	Recommended	Options	Notes
PLC type	Parker Compax3		
PLC I/F	RS232		
Baud rate	115200		
Data bits	8	7 or 8	
Parity	None	Even, Odd, None	
Stop bits	1	1 or 2	
PLC sta. no.	0	0	Must be 0 for RS232

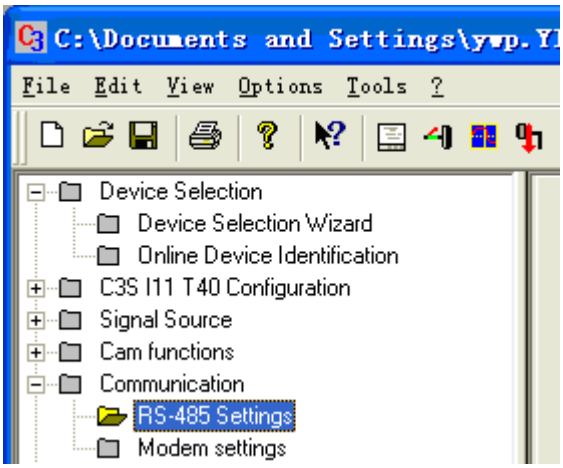
RS485

Parameters	Recommended	Options	Notes
PLC type	Parker Compax3		
PLC I/F	RS485 2W		
Baud rate	9600		
Data bits	8	7 or 8	
Parity	None	Even, Odd, None	
Stop bits	1	1 or 2	
PLC sta. no.	1	1-99	Range from 1 to 99 for RS485, according to the PLC setting.

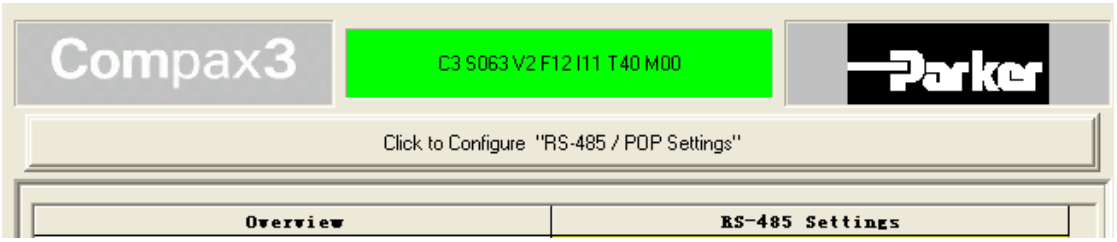
PLC Setting:

How to set Compax 3 servo to RS485 mode?

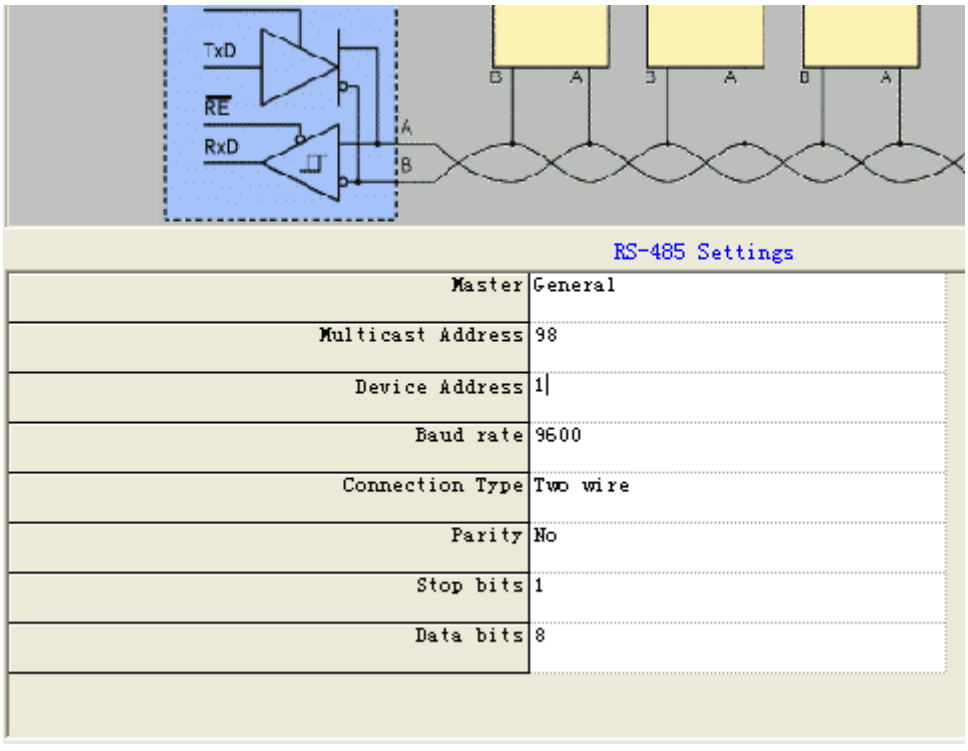
1. Open C3 ServoManager2, select “Communication” => “RS-485 Settings”.



2. Click to Configure “RS-485/POP Settings”.



3. Set parameters as below:



4. Download settings to Compax3 Servo.

5. Set EasyBuilder system parameter and connect with PLC for communication of HMI and Servo.

Device Address:

Bit/Word	Device type	Format	Range	Memo
B	R_Low16bit	DDDDDDDDh	0 ~ 99999999f	
B	R_High16bit	DDDDDDDDh	0 ~ 99999999f	
DW	Register_Int	DDDDDD	0 ~ 999999	For Register INT32, U32
DW	Register_float	DDDDDD	0 ~ 999999	For Register INT32, U32
W	Register_Short	DDDDDD	0 ~ 999999	For Register INT16, U16

The range of the address that can be operated depends on the address type.
(For more information, please see PLC Connection Guide)
For example:
If the read / write address is: 1901.2, please enter 190102
If the read / write address is: 400.1, please enter 40001

Wiring Diagram:

Diagram 1

RS-232 (Parker Compax3 PLC X10 : RS232)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

HMI		PLC
Link		RS232 9P D-Sub Male
Rx	⟷	3 TXD
Tx	⟷	2 RXD
GND	⟷	5 GND

Diagram 2

RS-485 2W (Parker Compax3 PLC X10 : RS485 2W)

The serial port pin assignments may vary between HMI models, please click the following link for more information.

HMI		PLC
Link		RS485 2W 9P D-Sub Male
Data-	⟷	3 Data-
Data+	⟷	7 Data+
GND	⟷	5 GND
		1 Enable RS485
		9 +5V