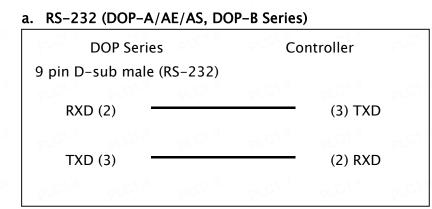
Parker Compax3 Servo

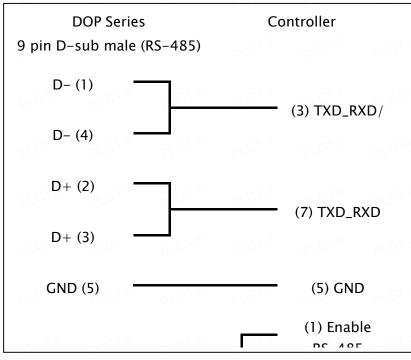
HMI Factory Setting:

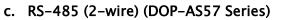
Baud rate: 115200, 8, None, 1 Controller Station Number: 0 (<u>Note1</u>) Control Area / Status Area: None/None

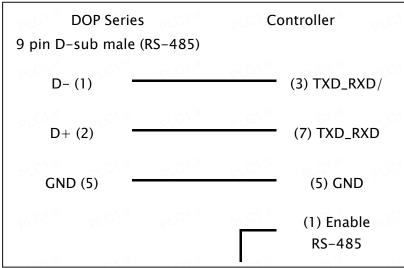
Connection



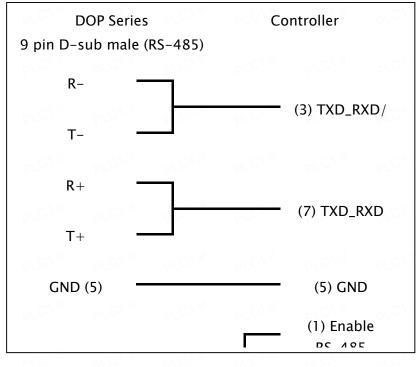
b. RS-485 (2-wire) (DOP-A/AE Series)



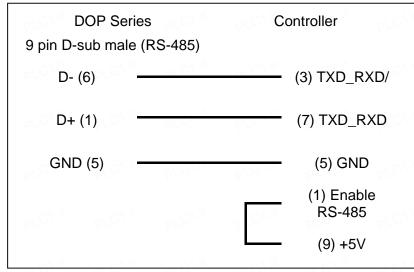




d. RS-485 (2-wire) (DOP-AS35/AS38 Series)



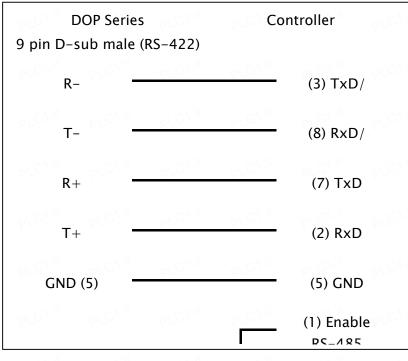
e. RS-485 (2-wire) (DOP-B Series)



f. RS-422 (4-wire) (DOP-A/AE Series)

| DOP Series | | Controller |
|-------------------------|--------------|------------|
| 9 pin D-sub male (RS-42 | 22) | |
| RXD- (1) | PLC1 | — (3) TxD/ |
| TXD- (4) | A it PLCA | — (8) RxD/ |
| RXD+ (2) | n.ir PLCA | — (7) TxD |
| TXD+ (3) | 1.ir PLC1 | — (2) RxD |
| GND (5) | A.M PLCA | — (5) GND |
| | A X PLCA | (1) Enable |
| | | 14 . 14 |





h. RS-422 (4-wire) (DOP-B Series)

| DOP Series 9 pin D-sub male (RS-422) | Con | troller |
|---|--------------------|------------|
| RXD- (9) | ptovir. | (3) TxD/ |
| TXD- (6) | ptorit | (8) RxD/ |
| RXD+ (4) | pLo ^A M | (7) TxD |
| TXD+ (1) | ptst | (2) RxD |
| GND (5) | provin | (5) GND |
| PLCTI PLCTI PLCTI | P F | (1) Enable |

Definition of PLC Read/Write Address

a. Registers

| PLC1.IT | | Format | in plotin plotin | Data | rcu'ii |
|---------|--------------|------------------|--|----------|----------|
| | Туре | Index No.(n) | Read/Write Range | Length | Note |
| PLC1.IT | PLC1.II PLC1 | Sub-Index No.(m) | LC1.ir | Length | LC1.M |
| Object | | OBJW n.m | OBJW 0.1 - OBJW 65535.32 | Word | |
| Object | PLC1.IT PLC1 | OBJD n.m | OBJD 0.1 - OBJD 65535.32 | Double | <u>3</u> |
| | | | | word | |
| Object | PLC1.IT PLC1 | OBJRn.m | OBJR 0.1 - OBJR 65535.32 | Floating | <u>3</u> |
| | | | | point | |

b. Contacts

| pLC1.IT | Туре | Format Index No.(n) Sub-Index No.(m) | Read/Write Range | Note |
|---------|--------------|--|--|--------------------|
| Object | PLO' II PLO' | Bit No.(b) OBJWBn.m/b | OBJWB 0.1/0 – OBJWB 65535.32/15 | 5-0 ^{1,1} |
| Object | PLC1.1 PLC1 | | OBJDB 0.1/0 - OBJDB 65535.32/31 | PLC1.X |

- The connection established by RS-232 does not require station number setting. But, if the connection is established by RS-485, station number must be set in a range of 0 ~99.
- 2) This program supports both ASCII/BINARY RECORD mode, but the default setting is ASCII mode. Change can be made in "Screen Editor" \rightarrow "Special Parameters" \rightarrow "Extra".

| General Control Block | COM port | | | |
|-----------------------------------|-------------------------------------|--|----------------|--------------------|
| COM port | Add Delete | ete Move Up Communication Parameter HMI Station 0 | | |
| Printer Setup Default Other | Modify Special Parameters | Move Down | Interface | 0 😒 RS232 💌 |
| | COM1 COM2 Base Port COM3 | omm. Advanced Se | stting | |
| | | Extra. 1 | Ascii Ascii | |
| | 1.01 ¹ 0.01 ¹ | PLO1.1 | Binary | |
| | | PLOT IN PL | | PLO ^{NIN} |
| | Jolow Plow | PLON IT PL | | 2.0 ¹¹ |
| | Comm. Interrupt | | <u></u> | |
| | | | ОК | Cancel |

- 3) This protocol support access to the parameter of Compax3 and above only and is defined as OBJ. The data in different address are not the same type, therefore the character follows "OBJ" is to represent each type of data. OBJW is for 16bits date; OBJD is for 32 bits data, the data length must be Double Word format and numeric unit can not be Floating point; OBJR is for 32 bits data, data length must be Double Word type and numeric unit must be Floating point.
- 4) Pay special attention to the parameter characteristics, "read only" or "read/write". Please refer to Parker Compax 3 user manual for more detail.

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