

Panasonic MINAS A4 Series

Panasonic MINAS A4 series Servo Drive

HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	PANASONIC MINAS A4		
Com port	RS232		
axis 號	0 (master station only)	0 ~ F (slave)	
Baud rate	9600		
Parity bit	None		
Data Bits	8		
Stop bit	1		

Device address:

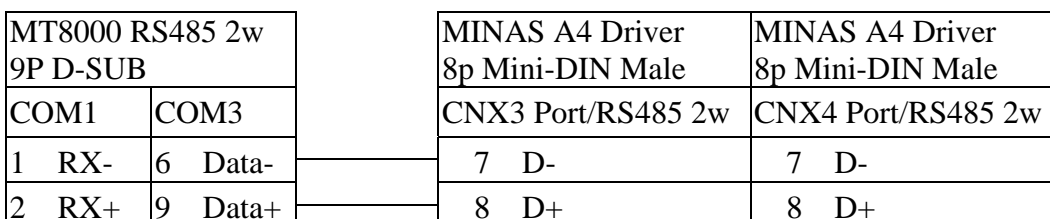
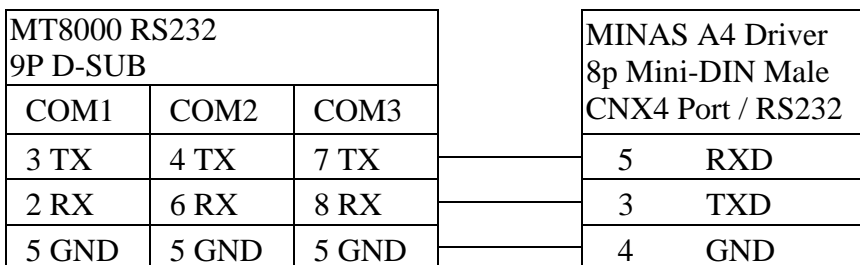
Bit/Word	Device Type	Format	Range	Memo
W	Command 01	d	0 ~ 0	cpu version (Numeric format: 16-bit Hex)
W	Command 05	d	0 ~ 0	driver version (ASCII / 12 words)
W	Command 06	d	0 ~ 0	motor version (ASCII / 12 words)
B	Command 20	d	0 ~ 7	States (Note 3)
W	Command 21	d	0 ~ 0	command pulse counter (Numeric format: 32-bit Signed)
W	Command 22	d	0 ~ 0	feedback pulse counter (Numeric format: 32-bit Signed)
W	Command 24	d	0 ~ 0	present speed (Numeric format: 16-bit Unsigned)
W	Command 25	d	0 ~ 0	present torque (Numeric format: 16-bit Unsigned)
W	Command 26	d	0 ~ 0	present deviation counter (Numeric format: 32-bit Signed)
B	Command 27	d	0 ~ 31	input signal (Note 3)
B	Command 28	d	0 ~ 31	output signal (Note 3)
W	Command 84	d	0 ~ 0	write parameter to EEPROM (Note 1)
W	Command 90	d	0 ~ 0	present Alarm Data (Numeric format: 16-bit Unsigned)
W	Command 91	d	1 ~ 14	Alarm History (Note 4)

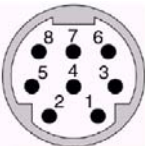
				(Numeric format: 16-bit Unsigned)
W	Command 92	d	1 ~ 14	Batch Alarm (Note 4) (Numeric format: 16-bit Unsigned)
W	Command 93	d	0 ~ 0	clear alarm history (include EEPROM) (Note 1)
W	Command 94	d	0 ~ 0	alarm clear (Note 1)
W	Command 9B	d	0 ~ 0	Absolute clear (Note 1)
W	Parameter	hh	0 ~ 7F	Individual Parameter (range: 0x00 ~ 0x7F) (Note 2)

Note:

- Command 84, Command 93, Command 94 and Command 9B are write only. (These commands are able to use Set Bit Object and execute the write command after trigger Set Bit Object.).
Except these four commands, others are read only.
- Parameter read/write: Use Device type to define address control from 00~7F
For example: "address_00" is mapping to "Parameter_00". (Please refer detail with Panasonic MINAS A4 series user manual.)
- Device address type can define MINAS A4 Driver's command list.
Command 20, Command 27 and Command 28 are Bit type, use "Operating range" to map communication order status.
For example: "Command 20_3" means "Read state_CCW."
(Please refer detail with Panasonic MINAS A4 series user manual)
- Command 91 and Command 92 are word type, use "Operating range" to map the record of 14 alarms.
For example: "Command 91_1" means "Read alarm data_First alarm."

Wiring diagram:



 8P Mini-Din Female MINAS A4 Driver CNX3 / CNX4 Port	MINAS A4 Driver CNX3 Port	MINAS A4 Driver CNX4 Port
	7 D-	3 TX
	8 D+	5 RX
	4 GND	4 GND
		7 D-
	8 D+	

RS485 cable / DVOP1970-005

MINAS A4 Driver 8p Mini-DIN Male		MINAS A4 Driver 8p Mini-DIN Male
7 D-	=====	7 D-
8 D+	=====	8 D+
4 GND	=====	4 GND

RS232 cable / DVOP1960

MINAS A4 Driver 9P D-SUB Female		MINAS A4 Driver 8p Mini-DIN Male
3 RXD	=====	5 RXD
2 TXD	=====	3 TXD
5 GND	=====	4 GND

HMI connect with one Device

Weintek HMI

Com RS232

Panasonic
MINAS A4
Driver X4



Station No. 0

HMI connect with multi devices

Weintek HMI

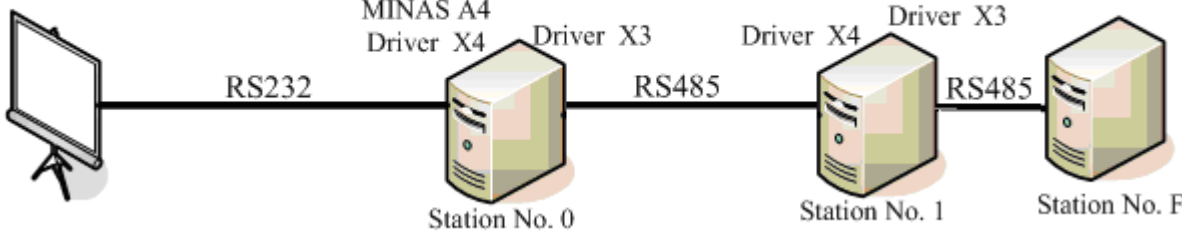
Com RS232

Panasonic
MINAS A4
Driver X4

Driver X3

Driver X4

Driver X3



Station No. 0

Station No. 1

Station No. F