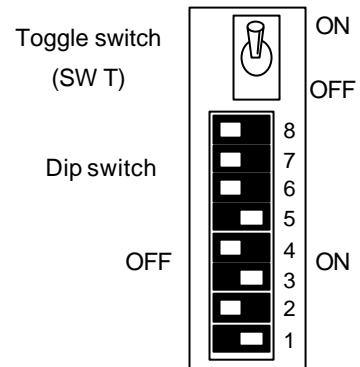


# Communication Setting Guidance

## 1. EH-150

### Dip and toggle switch configuration

			1	2	3	4	5	6	T
RUN/STOP mode	Remote		ON	-	-	-	-	-	-
	RUN Switch		off	-	-	-	-	-	-
Port 1	Dedicated port (Programming / HMI)	4,800 bps	-	-	ON	ON	ON	-	-
		9,600 bps	-	-	off	ON	ON	-	-
		19,200 bps	-	-	ON	off	ON	-	-
		38,400 bps	-	-	off	off	ON	-	-
	General purpose port	Modem mode	-	ON	-	-	off	-	-
		Normal mode	-	off	-	-	off	-	-
Port 2	Dedicated port (Programming / HMI)	4,800 bps	-	-	-	-	-	off	off
		9,600 bps	-	-	-	-	-	ON	off
		19,200 bps	-	-	-	-	-	off	ON
		38,400 bps	-	-	-	-	-	ON	ON

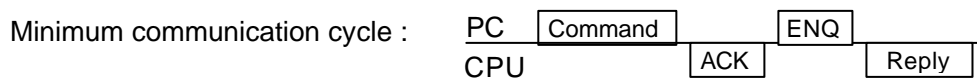


### Port function

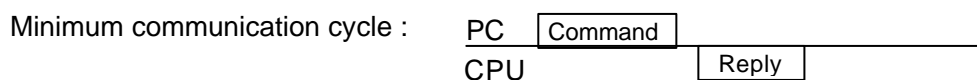
	RS-232C			RS-422/485				
	Procedure 1	Procedure 2	General purpose	Procedure 1		Procedure 2		General purpose
				Std.	St.No.	Std.	St.No.	
CPU104/208 Port 1	✓		✓					
CPU104A/208A Port 1	✓	✓	✓					
CPU308/316 Port 1	✓		✓					✓
CPU308A/316A/448/A Port 1	✓	✓	✓	✓	✓	✓	✓	✓
All CPU Port 2	✓							

#### Note

Procedure 1 : Standard H-Protocol.



Procedure 2 : Special and light H-Protocol without LUMP address.



## Port 1 configuration

### ➤ General purpose port : CPU308/A / 316/A [ WRF036 ]

Port type	Setting value
RS-232C (Default)	H0003 (→ H0002)
RS-422	H0005 (→ H0004)
RS-485	H0009 (→ H0008)

**Note** : When the baud rate is set properly, CPU changes it into the value in ( ) automatically.

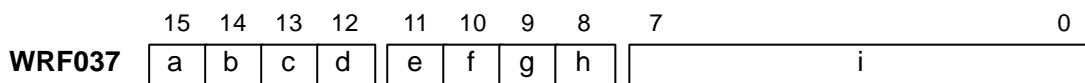
**Note** : No setting necessary for CPU104/A / 208/A (RS-232C only).

### ➤ Dedicated (Programming) port : CPU308A / 316A / 448 [ WRF037 ]

Comm. type	Port type	Setting value	CPU changes to	Next power ON
Procedure 1	RS-232C (Default)	H8000	H0?00	H0000
	RS-422	H8100	H0?00	H0500
	RS-485	H8200	H0?00	H0A00
	RS-485 St. No.	HA2xx	H2?xx	H2Axx
Procedure 2	RS-232C (Default)	HC000	H4?00	H4000
	RS-422	HC100	H4?00	H4500
	RS-485	HC200	H4?00	H4A00
	RS-485 St. No.	HE2xx	H6?xx	H6Axx

**Note** : This setting is valid after the next power ON. The above “?” depends on the last setting.

**Note** : xx : station number (BCD)



bit	Value	Set by
a	1 : Request to set	1 : User, 0 : CPU
b	0 : Procedure 1 (Std.), 1 : Procedure 2	User
c	0 : Standard, 1 : With station No.	User
d	Not used	-
e, f	00 : RS-232C, 01 : RS-422, 10 : RS-485	CPU
g, h	00 : RS-232C, 01 : RS-422, 10 : RS-485	User
i	Station number (BCD h'00 – h'31)	User

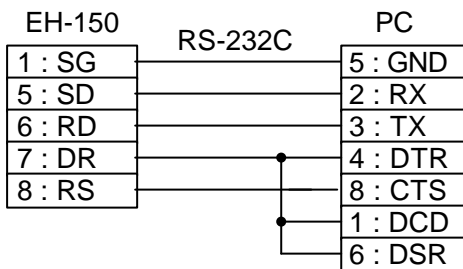
**Note** : Procedure 2 is another different H-protocol for peer-to-peer communication without LUMP address, ACK/NAK and ENQ.

## Modem setting [ WRF01A ]

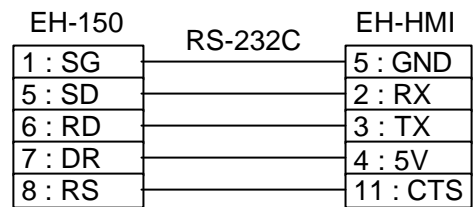
Baud rate [bps]	Setting value
2400	H0000 or H0001
4800	H0002
9600	H0004
19.2k	H0008
38.4k	H0010
57.6k	H0020

## Cable connection

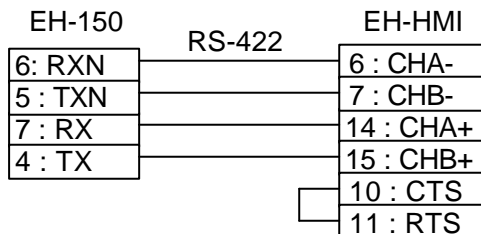
### EH-150 to PC (D-sub 9 pole)



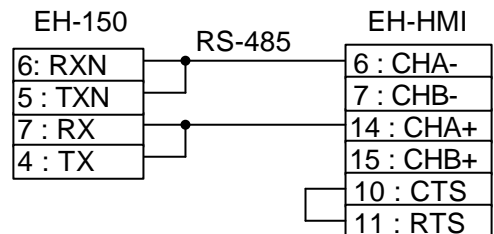
### EH-150 to EH-HMI (D-sub 15 pole)



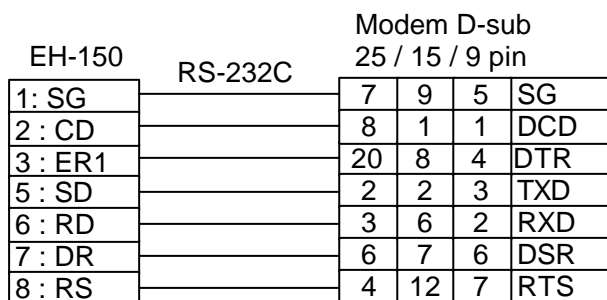
### EH-150 to EH-HMI (D-sub 15 pole)



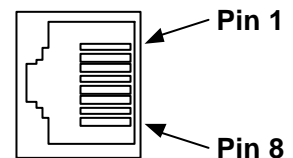
### EH-150 to EH-HMI (D-sub 15 pole)



### EH-150 to Modem (D-sub 25/15/9 pole)



### Connector on CPU (Socket side)



## 2. MICRO-EH

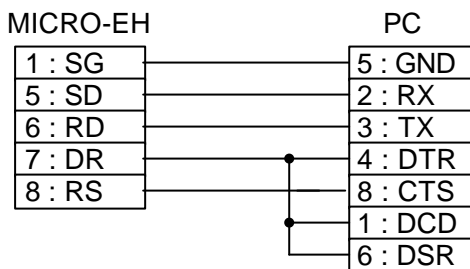
### Port 1 : RS-232C

#### Dip Switch Setting

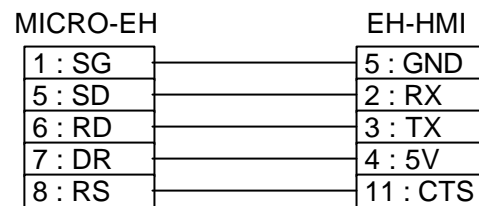
Baud rate [bps]	SW 1	SW 2	SW 3	SW 4
38.4k	ON	off	ON	off
19.2k	ON	off	off	off
9600	off	off	ON	off
4800	off	off	off	off
Modem	off	ON	off	off

#### Cable connection

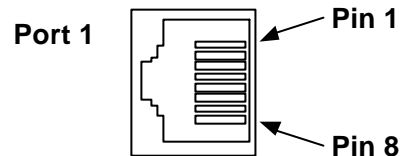
##### MICRO-EH to PC (D-sub 9 pole)



##### MICRO-EH to EH-HMI (D-sub 15 pole)



#### Connector on CPU (Socket side)



### Port 2 : RS-422/485

#### Port configuration [ WRF03D ]

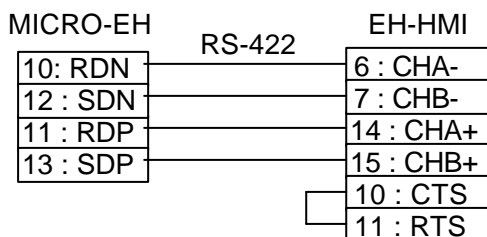
Baud rate [bps]	Standard H-protocol	Station number H-protocol
38.4k	H8300 (→ H0300)	HA3xx (→ H23xx)
19.2k	H8200 (→ H0200)	HA2xx (→ H22xx)
9600	H8100 (→ H0100)	HA1xx (→ H21xx)
4800	H8000 (→ H0000)	HA0xx (→ H20xx)

**Note** : xx : station number (BCD)

**Note** : When the baud rate is set properly, CPU changes it into the value in ( ) automatically.

#### Cable connection

##### MICRO-EH to EH-HMI (RS-422)



##### MICRO-EH to EH-HMI (RS-485)

