

Hitachi H/EH/EHV Series

Supported Series: Hitachi H series, EH-150, Micro-EH, H20, H40, H64, H200, H250, H252, H300, H302, H700, H702, H1000, H1002, H2000, H4010. Website: <u>http://www.hitachi-ies.co.jp/english/products/plc/index.htm</u>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Hitachi H/EH/EH	V Series	
PLC I/F	RS232	RS232, RS485	
Baud rate	19200	9600, 19200, 38400	
Data bits	7	7	
Parity	Even	Even	
Stop bits	1	1	
PLC sta. no.	0	0-255	Does not apply to this protocol.

Online simulator	YES	Broadcast command	NO
Extend address mode	NO		

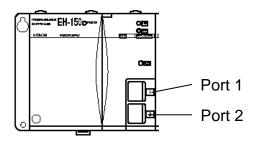
Device Address:

Bit/Wor	Device type	Format	Range	Memo
В	X_Dec	HHHdd	0 ~ 4ff95	
В	Y_Dec	HHHdd	0 ~ 4ff95	
В	Х	HHHHh	0 ~ fffff	External input-bit (X)
В	Υ	HHHHh	0 ~ fffff	External output-bit (Y)
В	М	HHHHh	0 ~ fffff	Data area-bit (M)
В	Т	HHHHh	0 ~ fffff	Timer (T)
В	R	HHHHh	0 ~ fffff	Internal output (R)
В	L	HHHHh	0 ~ fffff	Link area-bit (L)
W	ТС	НН	0 ~ ff	Timer/Counter current value
W	WM	НННН	0 ~ 270f	Data area-word (M)
W	WX	НННН	0 ~ 270f	External input-word (X)
W	WY	НННН	0 ~ 270f	External output-word (Y)
W	WR	НННН	0 ~ c3ff	Internal output-word (R)
W	WL	НННН	0 ~ 270f	Link area-word (L)



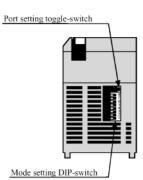
Wiring Diagram:

WARNING: If your communication cable is not wired exactly as shown in our cable assembly instructions, damage to the HMI or loss of communications can be caused.



CPU TYPE	Port 1	Port 2
EH-150/CPU 104A	RS-232	RS-232
EH-150/CPU 208A	RS-232	RS-232
EH-150/CPU 308A	RS-232/RS-485	RS-232
EH-150/CPU 316A	RS-232/RS-485	RS-232
EH-150/CPU 448A	RS-232/RS-485	RS-232

Switch Number				
1	OFF	Normal	mode	
2	OFF	TRNS0	operation	
3, 4	3	4	Port1 transmission speed	
	ON	ON	4,800 bps	Doesn't support
	OFF	ON	9,600 bps	
	ON	OFF	19,200 bps	Default
	OFF	OFF	38,400 bps	
5	ON	Dedicated port		
6	6	PHL	Port2 transmission speed	
	ON	Low	9,600 bps	
	ON	High	38,400 bps	
	OFF	Low	4,800 bps	Doesn't support
	OFF	High	19,200 bps	Default
7	OFF	(System mode)		Do not turn on.
8	OFF	(System mode)		Do not turn on.



Toggle-Switch PHL ON CONFECTION PHL ON CONFECTION PHL ON CONFECTION High OFF



Diagram 1

RS-232 (EH-150 port1/port 2 / MICRO-EH port1)

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

нмі		PLC
<u>Link</u>		RS232 8P RJ45 Male
Rx	•	5 SD
Тх	<>	6 RD
GND	<>	1 SG
CTS	←	8 RS
		4 PHL
		7 DR



Diagram 2

RS-485 4W (EH-150 port1)

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

The following is the view from the soldering point of a connector.

НМІ		PLC
<u>Link</u>		RS-485 4W 8P RJ45 Male
Rx-	▲	5 Tx-
RX+	▲	4 Tx+
Tx-	→	6 Rx-
Tx+	◆	7 Rx+
GND]◀────►	1 GND

Diagram 3

RS-485 2W (EH-150 port1)

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

The following is the view from the soldering point of a connector.

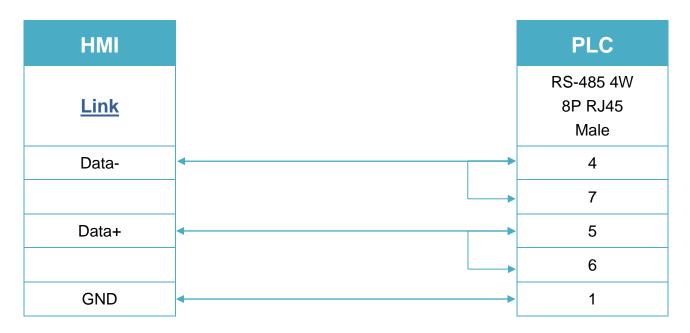




Diagram 4

RS-232 (H Series CPU Port)

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

НМІ		PLC
<u>Link</u>		RS232 15P D-Sub Male
Rx		2
Тх		3
GND	►	9
		10
CTS	↓	4
	-	5
		7
		8
		14