

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: <http://www.hitachi-ies.co.jp/english/products/plc/index.htm>

HMI Setting:

| Parameters | Recommended | Options | Notes |
|---------------------|-------------------------|--------------------|----------------------------------|
| PLC type | Hitachi H/EH/EHV 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. |

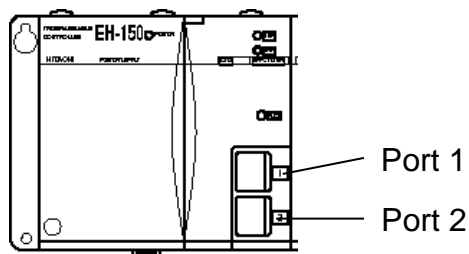
| | | | |
|----------------------------|-----|--------------------------|----|
| Online simulator | YES | Broadcast command | NO |
| Extend address mode | NO | | |

Device Address:

| Bit/Wor | Device type | Format | Range | Memo |
|---------|-------------|--------|-----------|-----------------------------|
| B | X_Dec | HHHdd | 0 ~ 4ff95 | |
| B | Y_Dec | HHHdd | 0 ~ 4ff95 | |
| B | X | HHHHh | 0 ~ ffff | External input-bit (X) |
| B | Y | HHHHh | 0 ~ ffff | External output-bit (Y) |
| B | M | HHHHh | 0 ~ ffff | Data area-bit (M) |
| B | T | HHHHh | 0 ~ ffff | Timer (T) |
| B | R | HHHHh | 0 ~ ffff | Internal output (R) |
| B | L | HHHHh | 0 ~ ffff | Link area-bit (L) |
| W | TC | HH | 0 ~ ff | Timer/Counter current value |
| W | WM | HHHH | 0 ~ 270f | Data area-word (M) |
| W | WX | HHHH | 0 ~ 270f | External input-word (X) |
| W | WY | HHHH | 0 ~ 270f | External output-word (Y) |
| W | WR | HHHH | 0 ~ c3ff | Internal output-word (R) |
| W | WL | HHHH | 0 ~ 270f | Link area-word (L) |

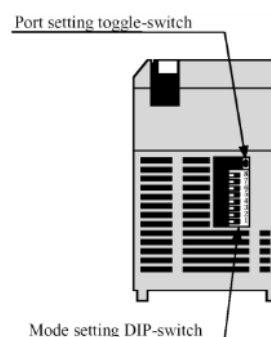
Wiring Diagram:

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

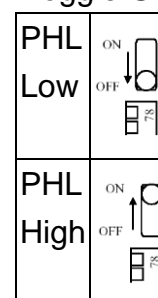


Diagram 1

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.

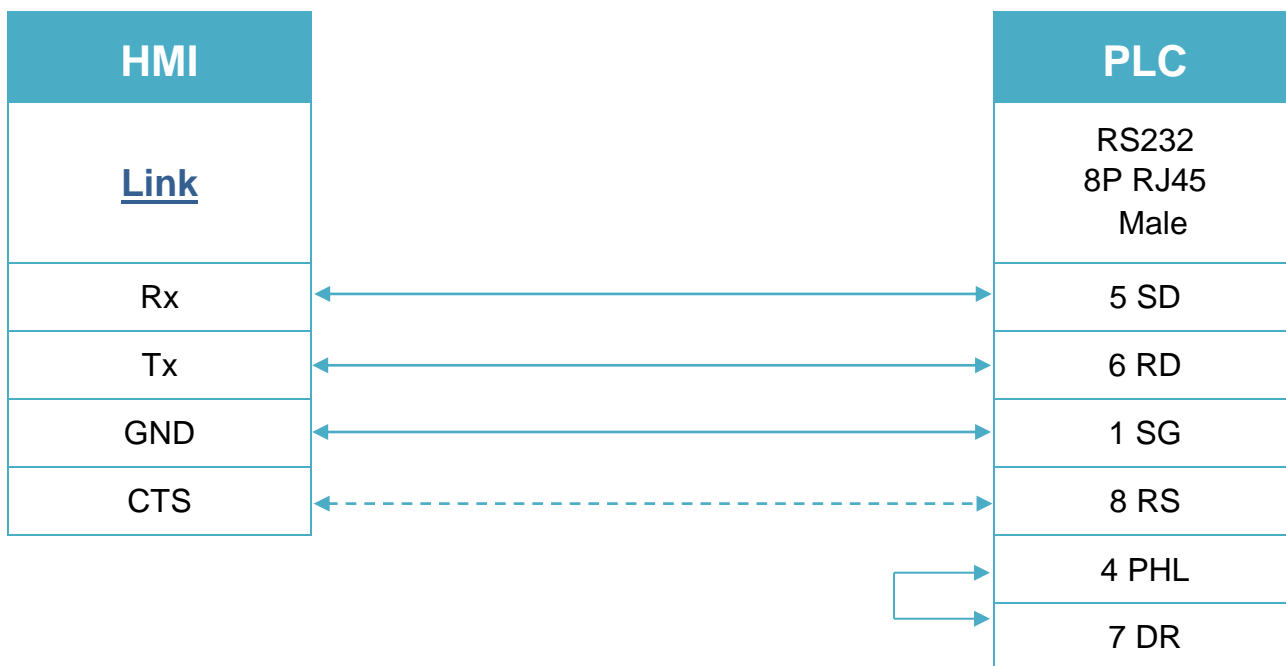


Diagram 2

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.

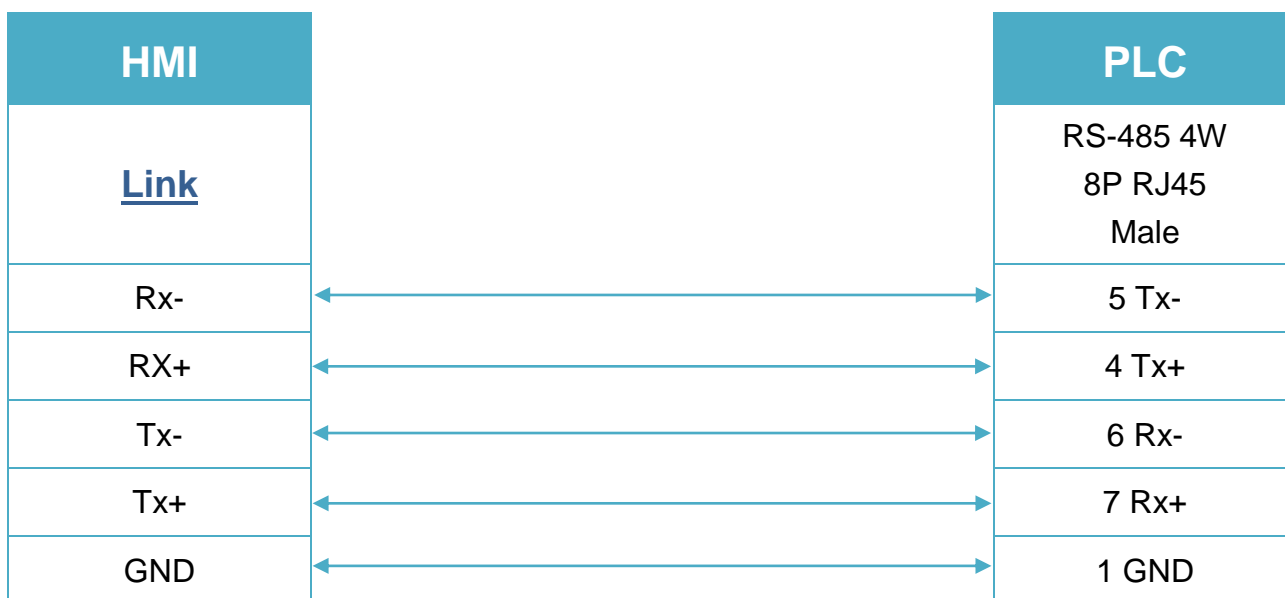


Diagram 3

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.

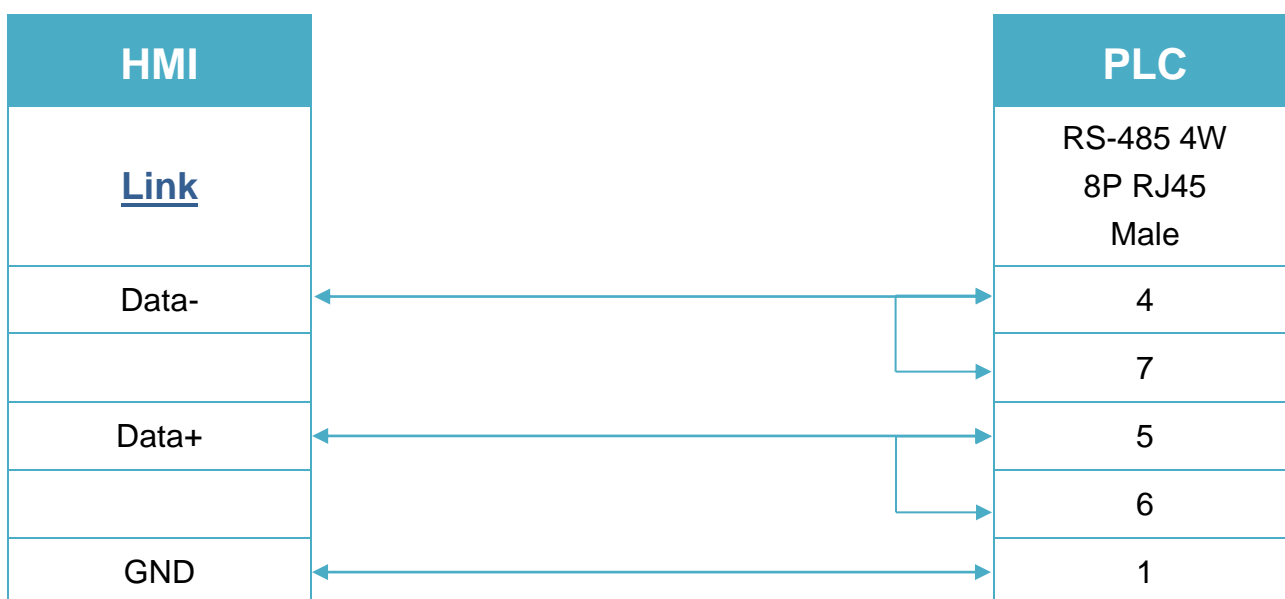


Diagram 4

RS-232 (H Series CPU Port)

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

