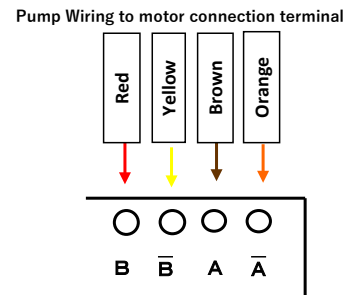


Bi-polar Stepper Motor Controller Specifications of **RE-C700** for Ring Pump RP-H Series

Product Name	Low voltage bi-polar stepper motor controller
Model Number	RE-C700 : controller unit
Applicable Pumps	Dedicated for Ring Pump RP-H series
Drive Voltage	VM=5.2V (Fixed)
Input Voltage	RE-C700 : DC5V, 1.0 A (AC-DC adaptor of AC100-240V 50/60Hz is included as accessory)
Control Method	Voltage drive method for bi-polar coil
Excitation Method	1/4 microstep drive method
Motor Speed	1 - 1,000 pps (4 - 4,000 Hz) Digital frequency division
Functions	Various controls using PC software SINGL-MODE Program-Mode



Connection Terminals: RE-C700 (Size: 100 x 100 x 34 mm)



- ① USB Connection Terminal (USB A-microB: Included as accessory)
- ② Pump Connection Terminals-1
- ③ Pump Connection Terminals-2
- ④ DC-IN Connection Terminal (AC Adaptor: Included as accessory)
- ⑤ Start Switch
- ⑥ Start -LED (BLUE)
- ⑦ Pause-Switch
- ⑧ Pause-LED (GREEN)
- ⑨ Power-LED (RED)

Accessories Included: RE-C700 : ● Type A-micro B USB Cable
 ● USB Memory Stick (PC Software)
 ● AC-DC Adapter

Motor Speed (PPS) and Motor Rotation

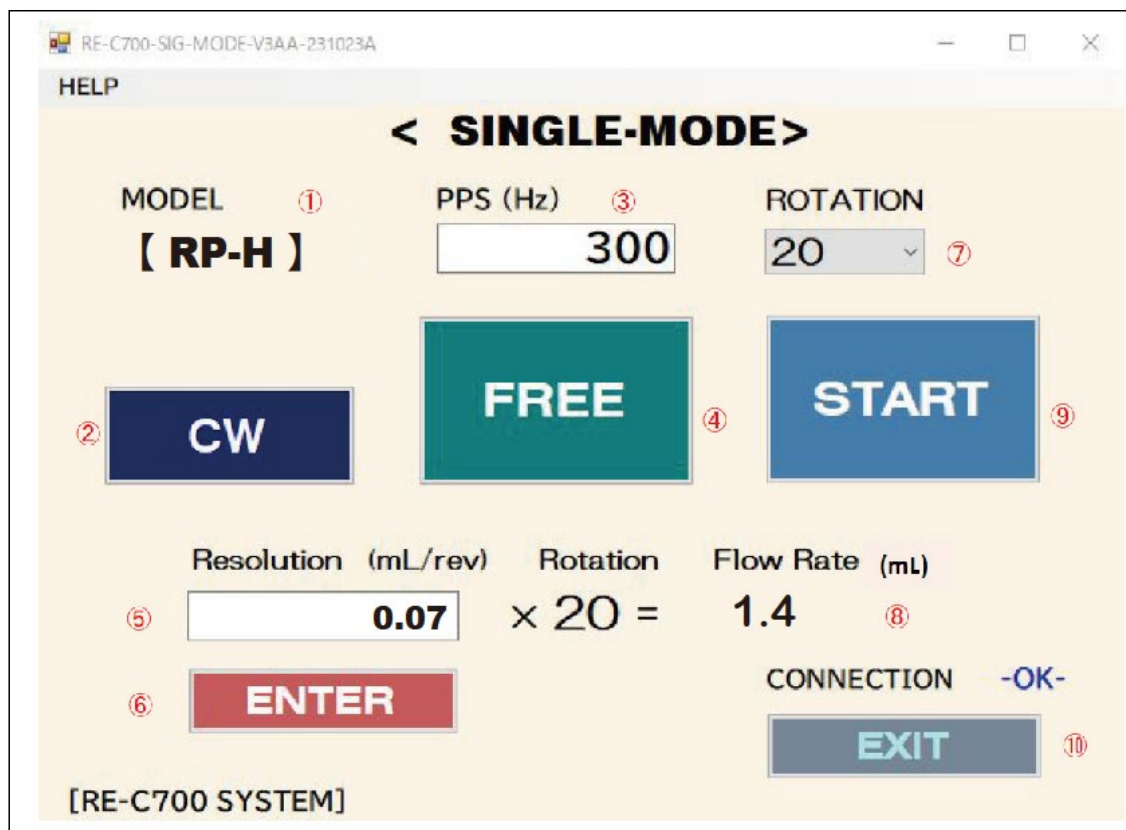
RP-H (240Step/ 1 rotation motor specification)

PPS	1	5	10	50	100	200	300	400	-	-	-
r p m	0.25	1.25	2.50	12.50	25.0	50.0	75.0	100.0	-	-	-

Special Notes:

- a) Discharge Rate: Please input "Discharge Rate per Rotation (mL/rev)".
(Refer to data included with the pumps)
- b) Control the motors within the range to prevent motor stepping-out (or not stopping or vibrating).

SINGLE



<Single Settings>

- | | | | |
|---|-------------------|---|------------------------|
| ① | MODEL | Pump : RP-H | VM = 5.2V (fixed) |
| ② | DIRECTION | Rotating direction. (Clockwise CW or Counter-Clockwise CCW) | |
| ③ | Motor Speed Input | 1 ~ 2000PPS | Limiter is set. |
| ④ | FREE | Click FREE to supply media (solution) for pump
Click STOP. | |

<PROGRAM Settings>

- | | | |
|---|---------------------------|--|
| ⑤ | Input Resolution "mL/rev" | Input the value from "Discharge Volume per Rotation (mL/rev)" that comes attached with the pump. |
| ⑥ | ENTER | Click ENTER to fix the "Resolution" settings. |
| ⑦ | ROTATION | Designation of rotation : 1 ~ 30 |
| ⑧ | Flow Rate (mL) | 「mL/rev」 * 「ROTATION」 = Flow Rate (mL) |
| ⑨ | START | START button while connected to the PC (computer) with USB.
* Auto Stop |
| ⑩ | EXIT | Disconnect from PC (computer). |

<Operation Settings>

"Controller Switch - START"

Use the controller's switch to START / STOP / PAUSE without the PC.

"PC-START"

⑰ START

START / STOP button while connected to the PC (computer) with USB.

* Each click will change between START ⇒ STOP.

⑱ PAUSE

PAUSE button while connected to the PC (computer) with USB.

* Each click will change between PAUSE ⇒ RESTART ⇒ PAUSE.

⑲ EXIT

Disconnect from PC (computer).

NB. When controlling from PC side, "START" and "Pause" of main unit SW must be set to <OFF> position to prevent possible unstable operation.

SAVE-FILE / OPEN FILE

① SAVE -FILE

② OPEN-FILE

① SAVE-FILE

Click on SAVE-FILE to save the PROGRAM setting (Type in file name)

② OPEN-FILE

Click on OPEN-FILE to open saved PROGRAM setting.

* Once the PROGRAM setting is opened, click WRITE to save it in the computer ROM.