



Robotiq Devices Setting

(Date : 2020/07/20)

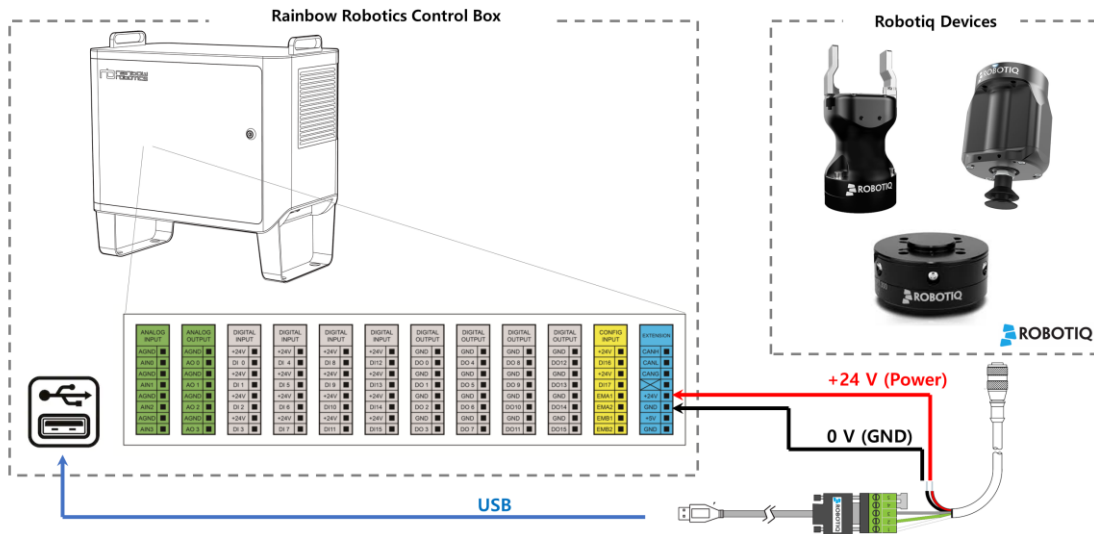
Rainbow Robotics Research Team
Manager, Hyoin Bae (hyoin@rainbow-robotics.com)

1. Hardware Connection

■ Caution

Before connecting the device, proceed with the connection process with the power off state.

1.1 Connection with Control Box

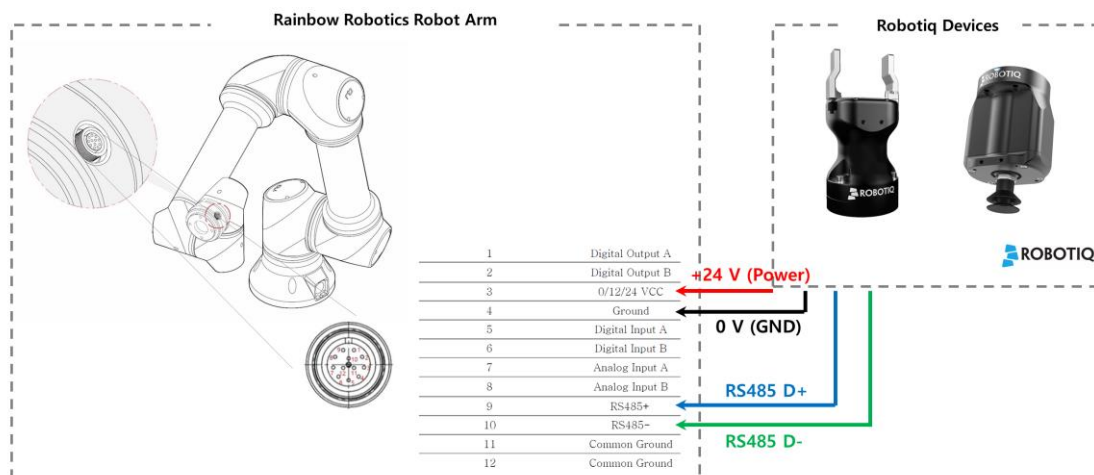


- Plug the Robotiq product's power cable into 24V on the Control-box I/O terminal block.
- Plug the Robotiq product's ground cable into GND on the Control-box I/O terminal block.
- Plug the Robotiq product's communication USB cable into the USB port of the Control-box.

Supporting Devices:

2F-85 / 2F-140 / Hand-E / FT300 / EPick

1.2 Connection with End Tool Flange



- Plug the Robotiq product's power cable into 24V on the Tool-Flange I/O terminal.
- Plug the Robotiq product's ground cable into GND on the Tool-Flange I/O terminal.
- Plug the Robotiq product's RS485 D+ , D- (A/B) cables into RS485 on the Tool-Flange I/O terminals.

Supporting Devices:

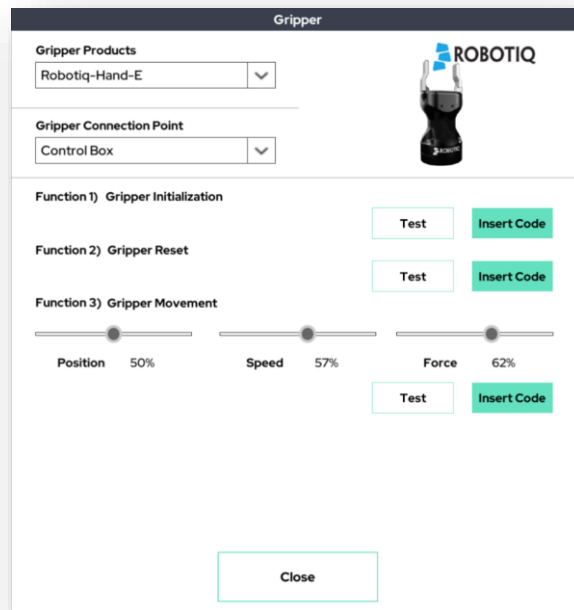
2F-85 / 2F-140 / Hand-E / EPick

2. Software Usage

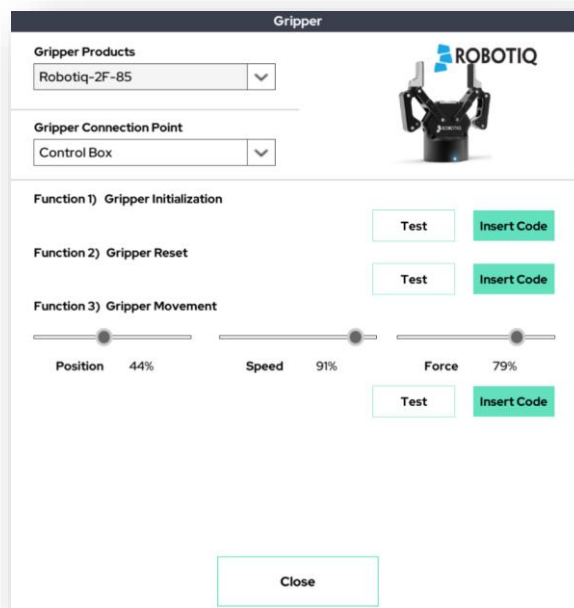
- **Caution**

Before connecting the device, proceed with the connection process with the power off state.

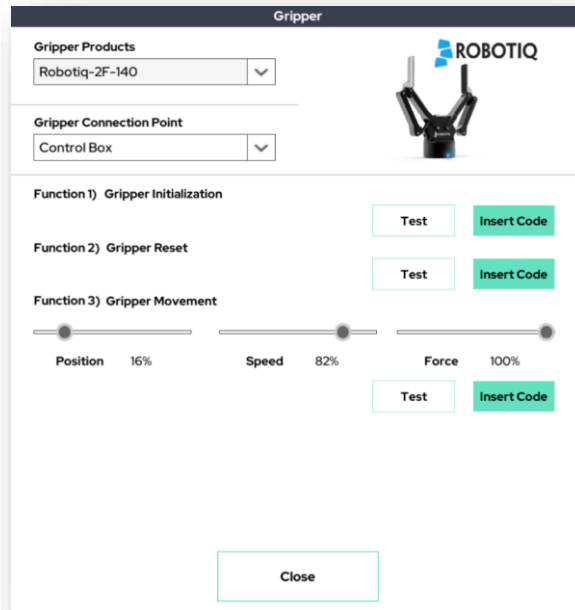
2.1 Robotiq Hand-E



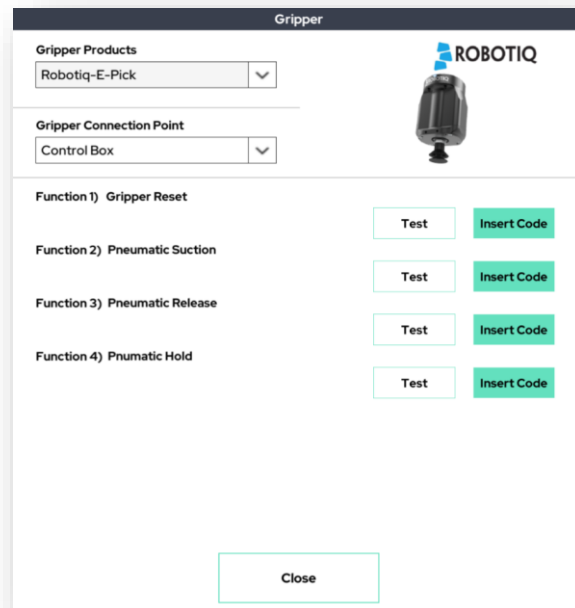
2.2 Robotiq 2F-85



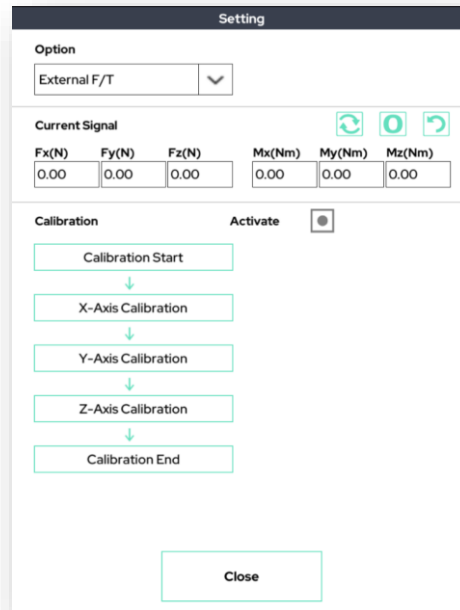
2.3 Robotiq 2F-140



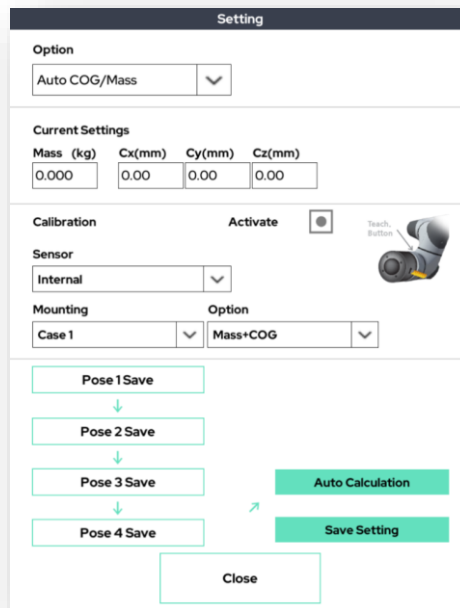
2.4 Robotiq EPick



2.5 FT300 Calibration



2.6 Auto COM with FT300



2.7 Force-Control with FT300

Force Control

Mode

Sensor

Frame

	Select	Target Value	Speed Limit
X	<input type="checkbox"/>	<input type="text" value="0"/> (N)	<input type="text" value="0"/> (mm/s)
Y	<input type="checkbox"/>	<input type="text" value="0"/> (N)	<input type="text" value="0"/> (mm/s)
Z	<input checked="" type="checkbox"/>	<input type="text" value="-20"/> (N)	<input type="text" value="100"/> (mm/s)
RX	<input type="checkbox"/>	<input type="text" value="0"/> (Nm)	<input type="text" value="0"/> (deg/s)
RY	<input type="checkbox"/>	<input type="text" value="0"/> (Nm)	<input type="text" value="0"/> (deg/s)
RZ	<input type="checkbox"/>	<input type="text" value="0"/> (Nm)	<input type="text" value="0"/> (deg/s)

Advanced Settings

Tracking Gain (%)

Sensor Filter (Hz)