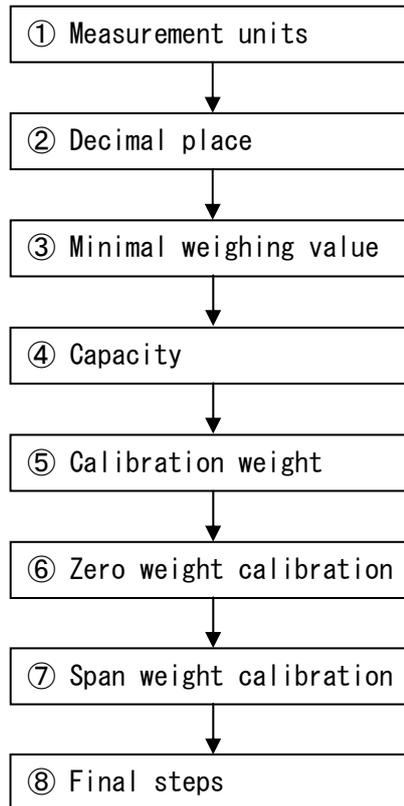


Calibration through CC-Link Interface

Calibration through CC-Link interface can be carried out with a device set to 4 stations occupied or 2 stations occupied. The calibration process is detailed below.

The processes below are explained on the following pages using an example of a device set up to use channel 1 with a capacity of 6.000t, calibration weight of 3.000t, and minimum weighing value of 10.



① Measurement Unit Configuration

Do the following to configure the measurement unit to “t” (ton).

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000E(D370): Input 1001(3E9H) for Command No.: Select Measurement Unit (C-F01).
3. Master RWw000C~RWw000D(D368~D369): Input 3(3H) for Command Data: Set to t(ton).
4. Master RY0002(Y102): Turn command processing request ON.
5. Device RX0002(X102): Confirm command processing response is ON.
6. Device RWr000E(D114): Confirm command no. response is 1001(3E9H).
7. Device RWr000C~RWr000D(D112~D113): Confirm command data response is 3(3H)
8. Master RY0002(Y102): Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting Value | | Remarks |
|--------------|--|------------------------|---------------|------|---------------|
| | | | DEC | HEX | |
| Command No. | RWw000E | D370 | 1001 | 3E9H | Function Code |
| Command Data | RWw000C~RWw000D | D368~D369 | 3 | 3H | Setting value |

② Decimal Place Configuration

Do the following to set the decimal place to thousandths (0.000).

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000E(D370): Input 1002(3EAH) for Command No.: Select Decimal Place (C-F02).
3. Master RWw000C~RWw000D(D368~D369): Input(3H) for Command Data: Set to 0.000.
4. Master RY0002(Y102): Turn command processing request ON.
5. Device RX0002(X102): Confirm command processing response is ON.
6. Device RWr000E(D114): Confirm command no. response is 1002(3EAH).
7. Device RWr000C~RWr000D(D112~D113): Confirm command data response is 3(3H).
8. Master RY0002(Y102): Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|------|---------------|
| | | | DEC | HEX | |
| Command No. | RWw000E | D370 | 1002 | 3EAH | Function Code |
| Command Data | RWw000C~RWw000D | D368~D369 | 3 | 3H | Setting value |

③ Minimum weighing value Configuration

Do the following to set the minimum weighing value to 10.

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000E (D370): Input 1003(3EBH) for command no.: Select minimum weighing value (C-F03).
3. Master RWw000C~RWw000D (D368~D369): Input 4(4H) for command data: Set to 10.
4. Master RY0002(Y102): Turn command processing request ON.
5. Device RX0002(X102): Confirm command processing response is ON.
6. Device RWr000E (D114): Confirm command no. response is 1003(3EBH).
7. Device RWr000C~RWr000D (D112~D113): Confirm command data response is 4(4H).
8. Master RY0002(Y102): Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|------|---------------|
| | | | DEC | HEX | |
| Command No. | RWw000E | D370 | 1003 | 3EBH | Function Code |
| Command Data | RWw000C~RWw000D | D368~D369 | 4 | 4H | Setting value |

④ Capacity Configuration

Do the following to set capacity to 6000.

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000E (D370): Input 1004(3ECH) for command number: Set to capacity(C-F04).
3. Master RWw000C~RWw000D (D368~D369): Input 6000(1770H) for command data: Set to 6000.
4. Master RY0002(Y102): Turn command processing request ON.
5. Device RX0002(X102): Confirm command processing response is ON.
6. Device RWr000E (D114): Confirm command no. response is 1004(3ECH).
7. Device RWr000C~RWr000D (D112~D113): Confirm command data response is 6000(1770H).
8. Master RY0002(Y102): Turn command processing request OFF. .

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|-------|---------------|
| | | | DEC | HEX | |
| Command No. | RWw000E | D370 | 1004 | 3ECH | Function Code |
| Command Data | RWw000C~RWw000D | D368~D369 | 6000 | 1770H | Setting value |

⑤ Calibration Weight Value Configuration (weight value for span input voltage)

Do the following to set the weight value to 3000.

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000E (D370) : Input 1019 (3FBH) for command no. : Select weight value for span input voltage (C-F19).
3. Master RWw000C~RWw000D (D368~D369) : Input 3000 (BB8H) for command data: Set to 3000.
4. Master RY0002(Y102) : Turn command processing request ON.
5. Device RX0002(X102) : Confirm command processing response is ON.
6. Device RWr000E (D114) : Confirm command no. response is 1019 (3FBH).
7. Device RWr000C~RWr000D (D112~D113) : Confirm command data response is 3000 (BB8H).
8. Master RY0002(Y102) : Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|------|---------------|
| | | | DEC | HEX | |
| Command No. | RWw000E | D370 | 1019 | 3FBH | Function Code |
| Command Data | RWw000C~RWw000D | D368~D369 | 3000 | BB8H | Setting value |

⑥ Zero adjustment with Actual Weights

Do the following to calibrate the zero adjustment with actual weights.

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000C~RWw000D (D368~D369) : Input 91 (5BH) for command data: Select CAL zero preliminary.
3. Master RY0002(Y102) : Turn command processing request ON.
(CAL will display 0 on the device, and enter CAL zero input mode.)
4. Device RWr000C~RWr000D (D112~D113) : Confirm command data response is 91 (5BH).
5. Master RY0002(Y102) : Turn command processing request OFF.
6. Remove any items from the weighing platform.
7. Device RX0017(X117) : Confirm that stable is ON.
8. Master RWw000C~RWw000D (D368~D369) : Input 94 (5EH) for command data: Set CAL zero configuration.
9. Master RY0002(Y102) : Turn command processing request ON.
(Zero input voltage (C-F17) will be updated and the device will display C-SPn.)
10. Device RWr000C~RWr000D (D112~D113) : Confirm command data response is 94 (5EH).
11. Master RY0002(Y102) : Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|-----|------------------|
| | | | DEC | HEX | |
| Command Data | RWw000C~RWw000D | D368~D369 | 91 | 5BH | CAL Zero prelim. |
| Command Data | RWw000C~RWw000D | D368~D369 | 94 | 5EH | CAL Zero config. |

⑦ Span Calibration with Actual Weights

Do the following to calibrate the span with actual weights.

(When this is performed after calibrating the zero adjustment with actual weights, steps 2–5 may be omitted)

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000C~RWw000D (D368~D369) : Input 92 (5CH) for command data: Select CAL span preliminary.
3. Master RY0002(Y102): Turn command processing request ON.
(C-SPn will display and the device will enter CAL span input mode.)
4. Device RWr000C~RWr000D (D112~D113): Confirm command data response is 92 (5CH).
5. Master RY0002(Y102): Turn command processing request OFF.
6. Place a 3.000t weight on the weighing platform.
7. Device RX0017(X117): Confirm that stable is ON.
8. Master RWw000C~RWw000D (D368~D369) : Input 95 (5FH) for command data: Set CAL span configuration.
9. Master RY0002(Y102): Turn command processing request ON.
(Zero input voltage (C-F17) will be updated, and the device will display C-End.)
10. Device RWr000C~RWr000D (D112~D113): Confirm command data response is 95 (5FH).
11. Master RY0002(Y102): Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|-----|------------------|
| | | | DEC | HEX | |
| Command Data | RWw000C~RWw000D | D368~D369 | 92 | 5CH | CAL Span prelim. |
| Command Data | RWw000C~RWw000D | D368~D369 | 95 | 5FH | CAL Span config. |

⑧ Final Steps

After zero and span adjustment have been calibrated with weights do the following to finish calibration.

1. Master RY0003(Y103): Set the read/write option to “write (OFF)” .
2. Master RWw000C~RWw000D (D368~D369) : Input 93 (5DH) for command data : Select CAL complete.
3. Master RY0002(Y102): Turn command processing request ON.
(Device will display the measured value and enter weighing mode.)
4. Device RWr000C~RWr000D (D112~D113): Confirm command data response is 93 (5DH).
5. Master RY0002(Y102): Turn command processing request OFF.

| | CC-Link Address 4 stations occupied, channel 1 | GX Developer Device | Setting value | | Remarks |
|--------------|--|------------------------|---------------|-----|--------------|
| | | | DEC | HEX | |
| Command Data | RWw000C~RWw000D | D368~D369 | 93 | 5DH | CAL Complete |