Digital Connection with Remote Scales

GC can use A&D scales (balances and scales) as remote scales.

Preparation for Connection

1. Settings on the Remote Scale

   Set to stream mode. (Refer to the manual of the relevant remote scale).

2. Settings on the GC. (Refer to "**14. Functions**" in the instruction manual.)

   - Set function setting F-06-03 to "2".

Setting Value	Description
2	External instrument

   Match the communication settings with the remote scale.

   - Set the baud rate in function setting F-06-04.

Setting Value	Description
0	2400 bps
1	4800 bps
2	9600 bps

   - Set the bit length and parity bit in function setting F-06-05.

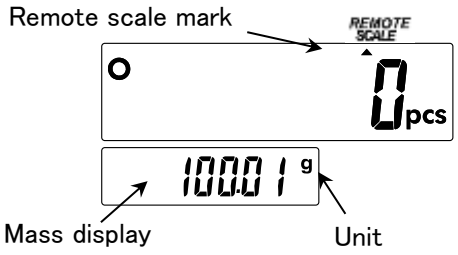
Setting Value	Description
0	7bit, Even
1	7bit, Odd
2	8bit, None

3. Connect the GC and the remote scale with an **RS-232C cross cable** (e.g., AX-KO1371-200).

Operation Method

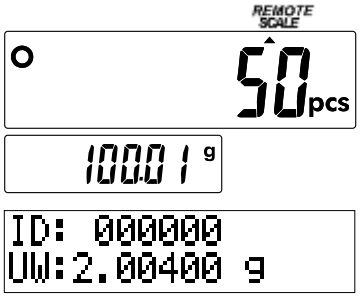
1. Turn on the power of the GC and the remote scale.
2. Press the [REMOTE SCALE] key on the GC.
   If the function setting F-06-03 of the GC is "0", the [REMOTE SCALE] key will not work.

3. The remote scale mark lights up, and the same measurement value (display count) as the remote scale is displayed on the mass display.



   - If "error 5" is displayed, the data from the remote scale is not being received. Check the communication settings and cable.
   - If the **unit is not displayed** on the mass display section, the correct measurement value is not obtained or the unit is not supported. Be careful as accurate counting cannot be performed.
   - Pressing the [REMOTE SCALE] key switches between the internal scale and remote scale.

4. After setting the unit weight (refer to "9. Counting" in the instruction manual), perform counting.



Notes

- ☐ Connecting Balances (Smaller minimum display than GC)
  Used to **set the unit weight accurately** by registering the unit weight with a sample on the balance side. **Note that it does not improve the weighing performance of the GC.**
- ☐ Connecting Scales (Larger capacity than GC)
  Used for large quantity counting using the unit weight registered on the GC side.
- ☐ Unit weight is common to both GC (internal scale) and remote scale.
- ☐ When setting the unit weight with a sample, the unit weight is calculated as unit weight = display count of the remote scale / number of samples. Since the display count is used, it does not match the internal resolution accuracy of the remote scale. If the capacity of the remote scale is much

smaller than the GC, the counting accuracy will be poor.

- ☐ You can use the weighing units that the GC can display. “mg” cannot be used. Use the same weighing unit as the remote scale.
- ☐ When selecting the remote scale, the number of pieces is calculated as number of pieces = display count / unit weight. If the minimum display of the remote scale is 2 or 5, the switching of the number of pieces will be rough, so it is recommended to use one with a minimum display of 1.
- ☐ When selecting the remote scale, the zero mark and net mark of the GC do not light up. Also, the zero key, keyboard tare key, and tare key do not work. Operate zero and tare with the keys on the remote scale side.
- ☐ When the unit weight is registered with samples, ACAI operates only on the scale side where the unit weight was set. Factory setting: ACAI automatically operates
- ☐ When the unit weight is called up with the numeric keys or from ID memory, ACAI operates on both scales. Factory setting: ACAI manually operates.
- ☐ If the unit weight is too light, ACAI does not operate.
- ☐ When selecting the remote scale, it is possible to register a unit weight less than the minimum countable unit weight by sample or key input (0 is prohibited).