Print switch mode / Command mode
Function setting “Prt 2”
When the PRINT switch is pressed while the weight value is stable (STABLE indicator is on), the scale transmits the value.

Auto-print mode +/- data / Command mode
Function setting “Prt 3”
The scale transmits the weight value when the display is stable (STABLE indicator is on) and the value is more than +4d or less than -4d. The next output can be obtained after the value returns to be more than -4d and less than +4d.
d = minimum display (Refer to “Specifications” of the scale instruction manual.)
Even the counting mode uses “d” for judgment.

Auto-print mode + data / Command mode
Function setting “Prt 4”
The scale transmits the weight value when the display is stable (STABLE indicator is on) and the value is more than +4d. The next output can be obtained after the value returns to be less than +4d.
d = minimum display (Refer to “Specifications” of the scale instruction manual.)
Even the counting mode uses “d” for judgment.

3.4. Command mode
In the command mode, the scale is controlled by commands that come from the external device such as a personal computer.

Command list
- "Q" command
  Command to request the current weight value.
  Command: Q Cn Ln
  Reply: S T , + 0 0 1 2 3 4 5 k g Cn Ln

- "Z" command
  Same operation as the ZERO switch.
  Command: Z Cn Ln

- "T" command
  Same operation as the TARE switch.
  Command: T Cn Ln

Reply to the command
- When the command cannot be executed, for example, because the scale is unstable, "I" will be sent.
  Reply: I Cn Ln

- If the received command is not for the SC/SE series scale, the scale will send “?”.
  Reply: ? Cn Ln

- When “ReC” 0 is selected, there is no reply except the “Q” command.

1. Features
- This interface allows the scale to be connected to a printer or a personal computer.
- It also allows outputting the comparison results of HI, OK or LO obtained using the comparator function as a relay signal.

Note: SCE-02 and SCE-03 cannot be installed at the same time.

2. Installation Procedure
Note: Before installing the SCE-03 board, be sure to remove the batteries from the scale.

Step 1 Pass the cable to connect an external device through the hole on the casing and connect it to the terminal block on the interface board.
Step 2 Insert the interface board into the casing.
Step 3 Place the waterproof packing on the casing, aligning its holes with the casing screw holes.
Step 4 Remove the four screws on the option slot panel located on the bottom of the display.
Step 5 Insert the interface board into the option slot.
Step 6 Secure the casing to the display, using the four screws provided with the casing.
Step 7 Seal the screw heads with the tabs attached to the waterproof packing.

- Cable connection using optional cables (sold separately)
  When connecting to an external device with hardware flow control, communication will be impossible using a cable without RTS and CTS connected. In that case, connect RTS and CTS. This will disable hardware flow control, but enable communication.
  - When the AX-KO3285-320 cable is used, RTS and CTS are internally connected and the above operation id unnecessary.
  - When the connector of an external device is a D-sub 9-pin connector, pin 7 is RTS and pin 8 is CTS.
3. SCE-03 RS-232C Serial Interface

- The RS-232C serial interface has four output modes: Stream mode, Command mode, Print switch mode and Auto-print mode. For details, refer to “3.3. Data output mode”.
- Set the parameters of the functions "bp5", "prt" and "ACK" as necessary.

3.1. Interface specifications

- Data format
  - Baud rate: 2400, 4800, 9600 bps
  - Data bits: 7 bits + parity 1 bit (even)
  - Start bit: 1 bit
  - Stop bit: 1 bit
  - Code: ASCI
  - Terminator: C_x: L_x (C_x: ODh, L_x: 0Ah)

- Relay output maximum rating
  - Maximum voltage: 50V DC
  - Maximum current: 100mA DC
  - Maximum ON resistance: 8Ω

3.2. Data format

- Four types of headers are available:
  - ST: Stable weight data
  - UST: Unstable weight data (including counting data)
  - QT: Stable counting data
  - OL: Out of weighing range

- The data is always 9 digits including a sign and a decimal point.
- Four units are available:
  - _kg: Weight data in "kilograms" (kg)
  - _lb: Weight data in "decimal pounds" (lb)
  - _PC: Counting data in "pieces" (pcs)
  - _oz: Weight data in "decimal ounces" (oz)

- The terminator is always C_x: L_x.
- Example of output data:

3.3. Data output mode

- Stream mode / Command mode
  - Function setting "prt 0"
    - The scale outputs the current display data in sync with the display update of approximately 10 times per second. The scale does not output data while it is in the setting mode.

- Command mode only
  - Function setting "prt 1"
    - The scale replies only to a command. For details, refer to “3.4. Command mode”. 