

SCE-03 RS-232C Serial Interface and Comparator Relay Output Instruction Manual.

1WMPD4002182

1. Features

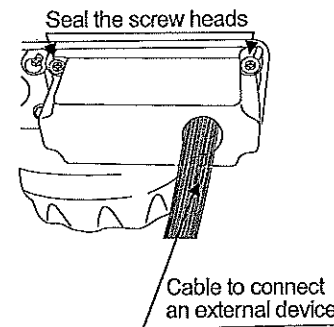
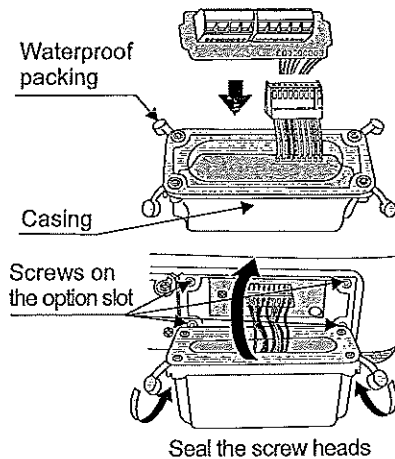
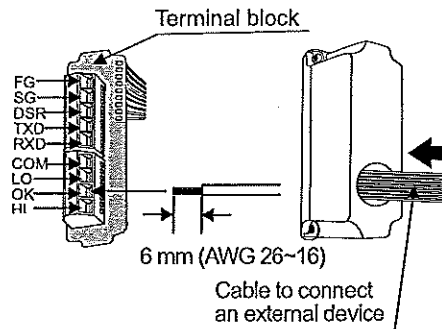
- This interface allows the scale to be connected to a printer or a personal computer.
- It also allows outputting the comparison results of **HI**, **OK** or **LO** obtained using the comparator function as a relay signal.

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

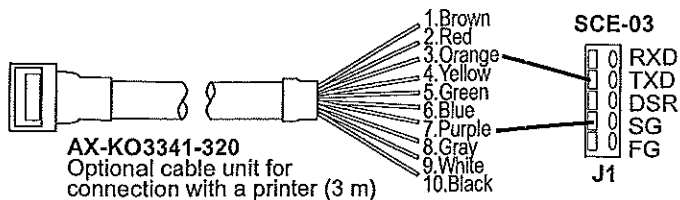
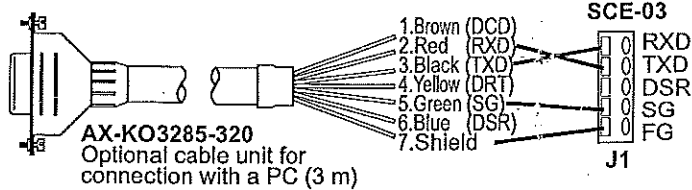
2. Installation Procedure

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)



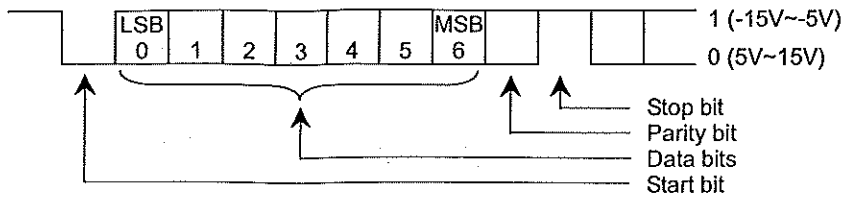
3. SCE-03 RS-232C Serial Interface

- 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 "bPS", "Prt" and "RLU" as necessary.

3.1. Interface specifications

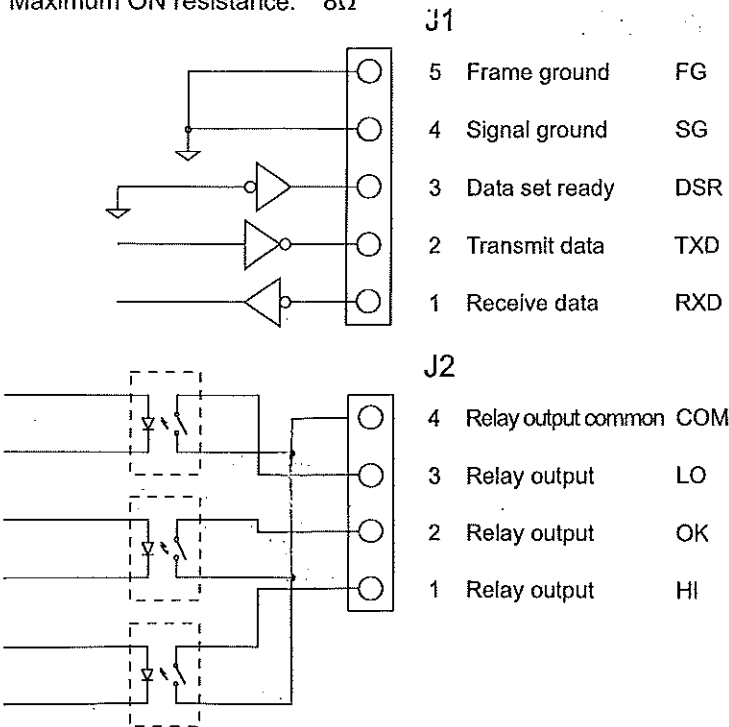
- Data format

Baud rate:	2400, 4800, 9600 bps
Data bits:	7 bits + parity 1 bit (even)
Start bit:	1 bit
Stop bit:	1 bit
Code:	ASCII
Terminator:	CRLF (CR: 0Dh, LF: 0Ah)



- Relay output maximum rating

Maximum voltage:	50V DC
Maximum current:	100mA DC
Maximum ON resistance:	8Ω



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	C _R	L _F
---	----------------	----------------

Reply

S	T	,	+	0	0	1	2	3	.	4	5	_	k	g	C _R	L _F
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----------------	----------------

- "Z" command Same operation as the

ZERO

 switch.

Command

Z	C _R	L _F
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- "T" command Same operation as the

TARE

 switch.

Command

T	C _R	L _F
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Reply to the command

- When the command cannot be executed, for example, because the scale is unstable, "I" will be sent.

Reply

I	C _R	L _F
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- If the received command is not for the SC/SE series scale, the scale will send "?".

Reply

?	C _R	L _F
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- When "ACE 0" is selected, there is no reply except the "Q" command.

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