

## EKW-04 Comparator Relay Output Interface INSTRUCTION MANUAL

EKW-04 is a comparator relay output and external input terminal option. Attach to the EK series balance.

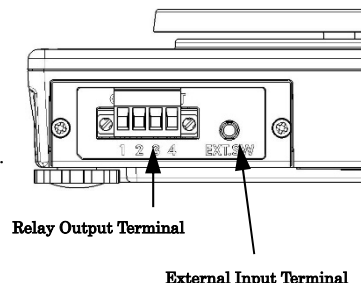
### 1. Installation Procedure

Note: Before installing the EKW-04 option board, disconnect the AC adapter from the balance.

Step1 Remove the other option from the option slot on the back.

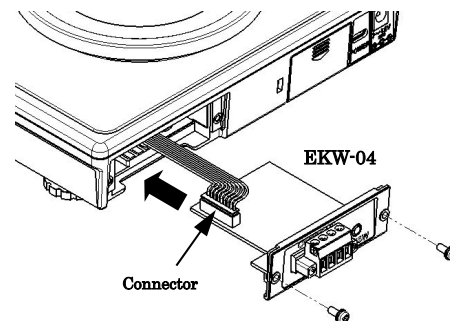
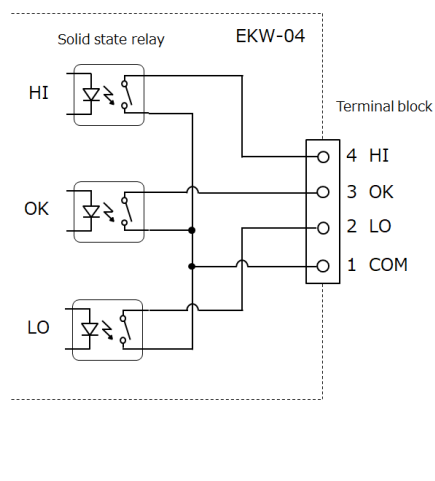
Step2 Attach the connector in the slot to the EKW-04 unit and insert it into the slot.

Step3 Secure the EKW-04 with the screws supplied with the EKW-04.



### 2. Comparator Relay Output Terminal

#### □ Pin layout



#### □ Maximum rating of the relay output

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

#### □ Setting the balance (EK series)

Refer to the instruction manual of the balance (EK series), to set the functions and the upper / lower limits.

– CH1

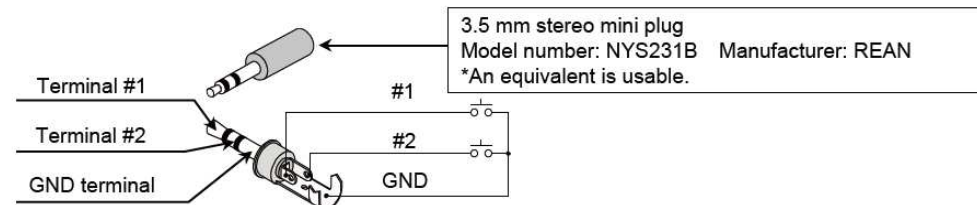
- Set function “bPS1” to “0”.
- Set function “bLP1” to “0”.
- Set function “PrL1” to “0”.

Note For constant output, it must be in stream mode.

- Set function “CP” to “1”~“6”.
- Set function “CP-r” to “1”.

### 3. External Input Terminal

Ready a 3.5 mm stereo mini plug (not included in the package) and connect it to a switch, etc. It works by short-circuiting #1 or #2 with GND (100ms or greater).



#### □ Setting the balance (EK series)

Refer to the instruction manual of the balance (EK series), to set the functions. – CH1

- Set function “bPS1” to “0”.
- Set function “bLP1” to “0”.
- Set function “Con1” to the number of Key to assign to external input signal #1.
- Set function “Con2” to the number of Key to assign to external input signal #2.

#### □ The number of Key

Con 1/2 setting value	Key
1	ON:OFF
2	SAMPLE
3	PRINT
4	MODE
5	RE-ZERO