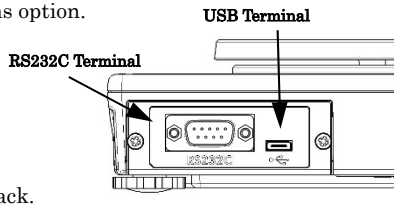
EKW-02 USB Communications Interface INSTRUCTION MANUAL

EKW-02 is a USB Communications and RS232 Communications option.
Attach to the EK series balance.



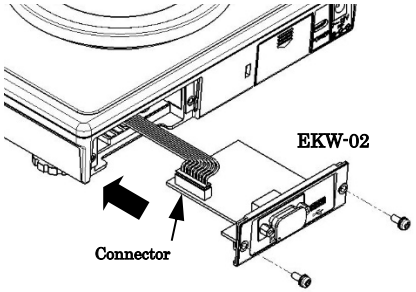
1. Installation Procedure

Note: Before installing the EKW-02 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-02 unit and insert it into the slot.

Step3 Secure the EKW-02 with the screws supplied with the EKW-02.



2. USB Communications

☐ USB driver

For the older OS than Windows 10,
a USB driver needs to be installed.
From the products page on the A&D website. https://www.aandd.jp/

Step 1 Download the USB driver software from the A&D website.
Step 2 Install the USB driver software to the PC that is used as a COM port.
Step 3 Confirm the COM port number in device manager.

☐ Communication Tools

Install a communication tool such as the WinCT in a PC to connect.
Note : WinCT (data processing software for balances and scales)
A&D website > Support > Software > WinCT.

☐ Communication Specifications

Transmission system : USB2.0
Connector : Type-C
Transmission form : Bi-directional communication with virtual COM port

☐ Setting the balance (EK series)

Refer to the instruction manual of the balance (EKseries), to set the functions. – CH2

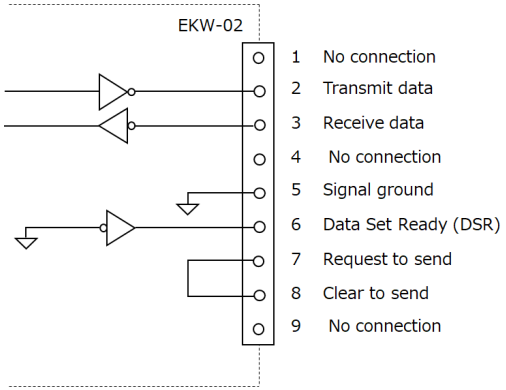
- Set function "bPS2" to the Baud rate to be used.
- Set function "btP2" to the Bit length and parity to be used.
- Set function "tyP2" to the Data output format to be used.
- Set function "Prt2" to the Data output mode to be used.

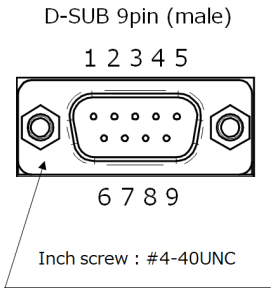
☐ How to communicate with WinCT

Step1 Match the communication settings of RsCOM of WinCT to the balance settings.
*baud rate/bit length/parity
Step2 Select the confirmed COM port.
Step3 Press the START button of RsCOM. Then, communication is available.

3. RS232C Communications

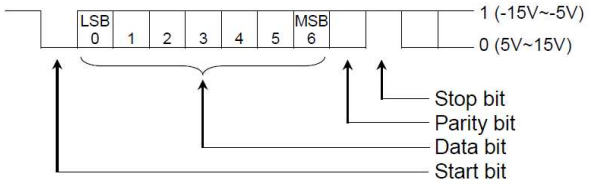
☐ Pin layout





☐ Communication Specifications

- ☐ Transmission : EIA RS-232C
- ☐ Transmission form : Asynchronous, bi-directional
- ☐ Start bit : 1 bit
- ☐ Stop bit : 1 bit
- ☐ Code : ASCII
- ☐ Terminator : CRLF (CR: 0Dh, LF: 0Ah)



☐ Setting the balance (EK series)

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

- Set function "bPS1" to the Baud rate to be used.
- Set function "btP1" to the Bit length and parity to be used.
- Set function "tyP1" to the Data output format to be used.
- Set function "Prt1" to the Data output mode to be used.

☐ How to communicate

Step1 Match the communication settings of connection device to the balance settings.
*baud rate/bit length/parity
Step2 When the balance starts communicating, the weighing results can be received.

4. Power supply

Power can be supplied via USB connector.
If you only want to supply power without communicating via the USB port, connect it to the USB connector terminal on the main body of the balance.
Remove the batteries when connecting to the USB connector.

A&D Company, Ltd.