

EKW-27 Bluetooth® Communication Interface INSTRUCTION MANUAL

EKW-27 is a Bluetooth communication and RS232C communication option. Attach to the EK series balance.

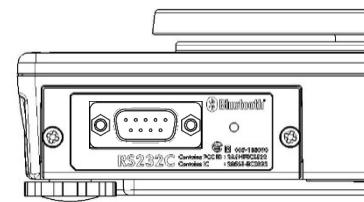
1. Installation Procedure

Note: Before installing the EKW-27 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-27 unit and insert it into the slot.

Step3 Secure the EKW-27 with the screws supplied with the EKW-27.



2. RS232C communication

For detailed specifications and communication methods, see the balance instruction manual. – CH1

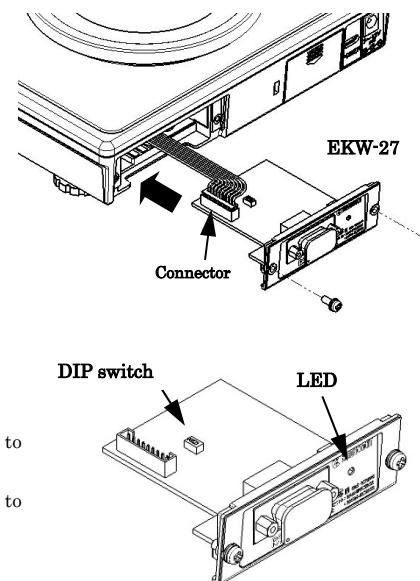
3. Bluetooth communication

Connectable device

- Smartphone / Tablet / PC with Bluetooth via HID
: Refer to HID function.
- Smartphone / Tablet via App : Install *A&D Weiv*® (App)
- AD8931 : Wireless Remote Display
- AD8541-PC : Wireless Communication Interface for PC
(Connect to USB port of computer)

Note1 Refer to the A&D website for details.

Note2 Set function “*blEF*” to “*0*” when connecting to Smartphone / Tablet / PC.
Set function “*blEF*” to “*1*” when connecting to *A&D Weiv* or AD8931 or AD8541-PC.



DIP switch

Case	DIP switch	Output Data
1	OFF	Only numerical data (No header, no +sign and no unit) Example 1) 1.23 Example 2) -4.56 ↑ Data
	ON	Add S/N before numerical data (Same as case 1 if the balance has no S/N setting) Example 1) 12345678 1.23 Example 2) 901234567 -4.56 ↑ ↑ ↑ S/N Tab Data
2	ON	Add S/N before numerical data (Same as case 1 if the balance has no S/N setting) Example 1) 12345678 1.23 Example 2) 901234567 -4.56 ↑ ↑ ↑ S/N Tab Data
	OFF	Only numerical data (No header, no +sign and no unit) Example 1) 1.23 Example 2) -4.56 ↑ Data

Setting the balance (EK series)

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

- Set function “*bPz*” to “*0*”.
- Set function “*btPz*” to “*0*”.
- Set function “*PrEc*” to “*0*”. (In case of connection to AD8931)
- Set function “*EP-r*” to “*0*”. (In case of connection to AD8931)

HID function (HID Over GATT Profile)

- By setting function “*blE I*” to “*0*”, you can connect to a Smartphone, tablet, or PC with Bluetooth and use a general-purpose text application or spreadsheet software.
- The output data has no header (ST, WT, etc.) + sign and unit (g, pcs, etc.).
- Set the keyboard language of device to English.
- By turning on DIP switch, the output data has serial number (S/N) of balance. Refer to 3- DIP switch, Case 2.

Pairing

- Turn on the Bluetooth function of connection device and power on the balance. Select the “A&D_HID” device and pair. S/N may have been added after “A&D_HID”.
- You will not be able to connect if more than 30 seconds have passed without pairing after selecting the device. In that case, power off the balance and try again.

Precautions for use

- Refer to the instruction manual of the connection device for the pairing.
- The LED lights up when the wireless communication connection is completed.
- It will connect automatically when the paired device is nearby. When connecting to other device, turn off the unused devices or disconnect.
- If you can't communicate, check that the connector is firmly connected. If it still fails, check the balance settings, pairing and connected devices.

Wireless communication

- Bluetooth devices is EC2832 (KAGA ELECTRONICS Co.,Ltd.) / Bluetooth 5.0 (Bluetooth Low Energy)
- The effective range communication is 10 m or less in an unobstructed space.
If there is an obstacle such as a wall, the range of communication will be shorter.
- Interference may be caused near the following devices that use the 2.4 GHz frequency band, which is the same as for Bluetooth. Therefore, this device is not suited for uses that require reliability.
 - Wireless LAN
 - Bluetooth devices (such as mobile phones)
 - Home appliances such as microwave ovens

Compliance

1. Compliance with FCC Rules

This device contains transmitter module FCC ID: 2A6NFEC2832

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. (FCC = Federal Communications Commission in the U.S.A.)

FCC CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This product is certified as type of the portable device with FCC Rules. To maintain compliance with RF Exposure requirement, please use within specification of this product.

2. IC

IC RADIATION EXPOSURE STATEMENT FOR CANADA

This device contains transmitter module IC : 28568-EC2832

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) l'appareil ne doit pas produire de brouillage; 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.