

FG-27CWP Bluetooth® Communication Interface for FG-CWP INSTRUCTION MANUAL

FG-27CWP is a wireless communication option. Attach to the FG-CWP series scale.

1. Installation Procedure

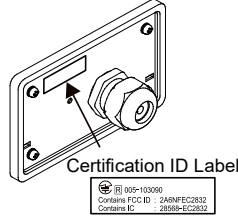
Note: Before installing the FG-27CWP option board, remove the USB plug from the power supply.

- 1) Remove the protective cover from the four screws of the Load cell/CAL cover on the rear of the display unit, and then loosen the four screws and open the Load cell/CAL cover.
- 2) Insert the FG-27CWP into the display unit and connect the connector (5 pin).
- 3) Tighten the Load cell/CAL cover with four screws.

2. Attaching Certification ID label

Attach the Certification ID label included with this product to the outer surface of the Load cell/CAL cover.

Note: Must be affixed to clarify the use of wireless devices.



3. Connectable Device

- Smartphone/Tablet/PC with Bluetooth via HID
: Refer to "6. HID function (HID Over GATT Profile)".
- 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)

Note 1 Refer to the A&D website for details. <https://www.aandd.co.jp/>

Note 2 Turn off DIP switch No. 1 when connecting to A&D WeiV or AD8931 or AD8541-PC.
Refer to "4. DIP Switch", Case 3.

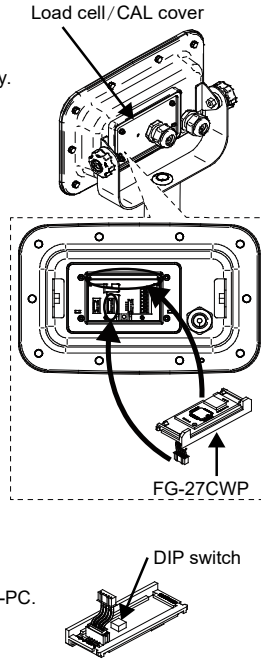
4. DIP Switch

Case		DIP switch		Output data
		No. 1	No. 2	
		SELECT	SERIAL	
1	Keyboard input No S/N (Factory Setting)	ON	OFF	Only numerical data (No header, no +sign and no unit) Example 1) 1.23 Example 2) -4.56 ↑ Data
2	Keyboard input With S/N	ON	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
3	Two-way communication	OFF	OFF	Connect to AD8931 or AD8541-PC or A&D WeiV

5. Setting the scale (FG-CWP series)

Refer to the instruction manual of the scale (FG-CWP series), to set the functions.

- 1) Set function "bPS" to "0".
- 2) Set function "bLPr" to "0".
- 3) Set function "PrL" to "3". (In case of connection to AD8931)
- 4) Set function "SLH" to "1".



6. HID function (HID Over GATT Profile)

- By turning on DIP switch No. 1, 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, kg, etc.).
- Set the keyboard language of device to English.
- By turning on DIP switch No.2, the output data has serial number (S/N) of scale. Refer to "4. DIP switch", Case 2.

Pairing

- Turn on the Bluetooth function of connection device and power on the scale. 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 scale and try again.

7. Precautions for use

- Refer to the instruction manual of the connection device for the pairing.
- The mark 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 scale settings, pairing or re-pairing and connected devices.

8. 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

9. Compliance

9-1. 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.

9-2. 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.

