

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

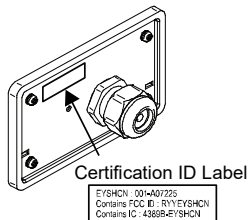
Note: Before installing the FG-27CWP option board, remove the USB plug from the power supply.

- 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.



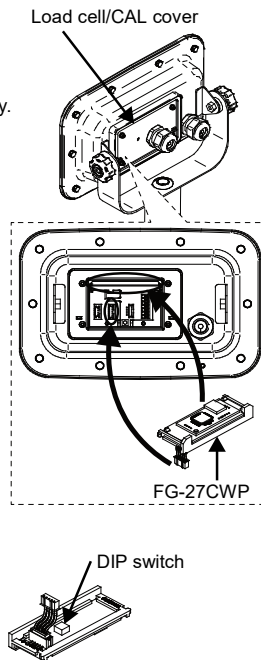
3. Connectable device

- Smartphone / Tablet / PC with Bluetooth® : Refer to "6. HID Function".
- 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 AD8931 or AD8541-PC. Refer to "4. DIP Switch", Case 3.

4. DIP Switch



| Case | DIP switch | | Output data |
|------|-----------------|-----------------|--|
| | No. 1 SELECT | No. 2 SERIAL | |
| 1 | ON | OFF | <p>Only numerical data (No header, no +sign and no unit)</p> <p>Example 1) 1.23 Example 2) -4.56</p> <p style="text-align: center;">↑ Data</p> |
| 2 | ON | ON | <p>Add S/N before numerical data (Same as case 1 if the balance has no S/N setting)</p> <p>Example 1) 12345678 1.23 Example 2) 901234567 -4.56</p> <p style="text-align: center;">↑ ↑ ↑ S/N Tab Data</p> |
| 3 | OFF | OFF | <p>Connect to AD8931 or AD8541-PC</p> |

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 "bP5" to "0".
- 2) Set function "bLPr" to "0".
- 3) Set function "PrL" to "3". (In case of connection to AD8931)
- 4) Set function "SCH" 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 EYSHCNZXZ (TAIYO YUDEN 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: RYIEYSHCN

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 warning

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his / her own expense.

9-2. IC

IC RADIATION EXPOSURE STATEMENT FOR CANADA

This device complies with Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This device contains transmitter module IC: 4389B-EYSHCN



A&D Company, Limited
3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013, JAPAN
Telephone: [81] (3) 5391-6132 Fax: [81] (3) 5391-1566