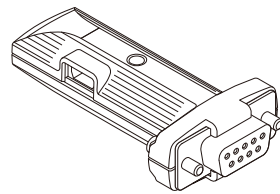


Instruction Manual



Product Page



Communication App for Weighing Devices (A&D WeiV)

Installing A&D WeiV on a tablet or smartphone equipped with Bluetooth enables bidirectional communication with compatible weighing devices through AD-8541-SCALE. Scan the following 2D barcode to download and install.



1WMPD4004863A

About This Manual

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Safety Precautions

To prevent accidents due to inappropriate handling, this manual contains the following warning signs and marks. The meanings of these warning signs and marks are as follows.

CAUTION A potentially hazardous situation which, if not avoided, may result in personal injury or property damage.

CAUTION

- Do not disassemble the device. Doing so may cause damage or malfunction, and it is not included in the warranty.
- This device may affect hearing aids, pacemakers, other medical electrical devices, fire alarms, automatic doors, and other automatically controlled devices. Do not use this device nearby them as it may cause malfunction or accident.

1. Introduction

This device makes RS-232C communication of A&D weighing devices wireless. You can communicate by pairing with specific products or Bluetooth-equipped PCs, tablets, and smartphones.

Read the instruction manual thoroughly before use.

2. Part Names and Packing List

Transfer Switch

Press and hold the switch for several seconds to switch functions.

Power Supply Connector (micro USB)

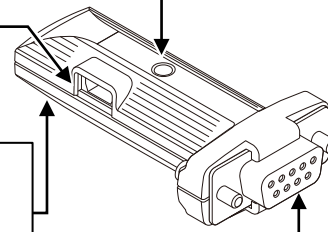
Used when an external power supply (using an AC adapter) is required.

Monitoring LED (Backside)

Indicates the product's status.

- Lit: Communication available
- Blinking: Communicating with device

D-Sub 9 pin (Female)



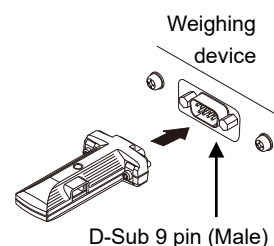
- Data communication is not possible with the power supply connector. Also, you cannot obtain power from the power supply connector.

Packing List

- AD-8541-SCALE: 1
- Instruction Manual (This manual): 1

3. How To Use

- Please confirm from the AD-8541-SCALE product page that the weighing device to be used is compatible with this device.
- Connect to the RS-232C connector (D-Sub 9 pin (male)) of the weighing device. Power is supplied from the weighing device.
 - If the connector of the weighing device is D-Sub 25 pin or DIN 7 pin, a cable in "6. Accessories" is required.



- Check that the monitoring LED lights up.
 - If the LED does not light up, connect an AC adapter in "6. Accessories".
- The table below shows the relationship between monitoring LED colors, functions, and connectable devices.

Press and hold the switch for several seconds to switch functions.

Color	Functions	Connectable Devices
Green	Bidirectional communication	AD-8541-PC (Wireless Communication Interface for PC) AD-8931 (Wireless Remote Display) Tablet / Smartphone *2
Blue	HID *1	Tablet / Smartphone PC (Bluetooth-equipped)

*1: HID over GATT Profile

*2: A dedicated app (A&D WeiV) is required.

- Perform pairing from the other device. For the pairing method, refer to the instruction manual of the connectable device above. If a previously paired device is nearby, it will automatically connect, so when connecting to a new device, turn off or disconnect the unused device.
- The monitoring LED blinks when wireless connection is established.

3-1. Bidirectional Communication Function

The monitoring LED lights green.

The same bidirectional communication as with a wired connection is possible.

- When connecting to an AD-8931, set the weighing device to stream mode.

3-2. HID Function (HID over GATT Profile)

The monitoring LED lights blue.

You can enter weighing values into a general-purpose text application (notepad or spreadsheet software) on your tablet or smartphone.

- Send the weighing data by pressing the Print key on the weighing device.
- The data to be entered is only numerical values, and headers such as "ST" and "WT", signs of "+", and units such as "g" and "kg" are not attached.

3-2-1. Pairing With Connected Device (Tablet / Smartphone)

With the Bluetooth function of the connected device turned on, turn on the power of the weighing device. From the Bluetooth connection of the connected device, select the device starting with "A&D_HID" and perform pairing.

- After 30 seconds have passed without pairing after selecting a device, the operation will time out. In that case, turn off the power to the weighing device and restart the operation.
- If you cannot reconnect with a device that has been paired in the past, delete the device information once and perform pairing again.

3-2-2. Keyboard Settings for Connected Devices

- If the input mode of the tablet or smartphone is a language other than English, poor reception or garbled characters may occur. Set the keyboard to English input keyboard (alphabet input mode) before connecting.
- If you need to install an English keyboard application, please refer to the A&D website for tablet or smartphone settings.

4. Troubleshooting

If communication is not possible, check the following.

Check	Treatment
Is the monitoring LED lit?	Connect the AC adapter to the power supply connector.
Is the monitoring LED blinking?	Pair the devices.
Are the device to connect to and function correct?	Switch to the desired function.
Are the communication settings of the weighing device correct?	Check your communication settings.

If the above does not solve the problem, or if other problems occur, please contact customer support.

5. Specifications

Communication Distance	10 m maximum																								
Specified Power	Not required. (Some weighing devices require the AC adapter *3)																								
Connectable Device	A&D weighing device with RS-232C interface *3																								
Ambient Temperature and Humidity	-10 to 40 °C, Less than 85 %RH (No condensation)																								
Dimensions	Approx. 35 mm (W) × 65 mm (D) × 17 mm (H)																								
Weight	Approx. 18 g																								
Wireless Communication	Bluetooth 5.0 (Bluetooth Low Energy)																								
RS-232C Interface	D-Sub 9 pin (Female) <table border="1"> <thead> <tr> <th>Pin</th> <th>Signal</th> <th>Direction</th> <th>Describes</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>RxD</td> <td>Input</td> <td>Receive data</td> </tr> <tr> <td>3</td> <td>TxD</td> <td>Output</td> <td>Transmit data</td> </tr> <tr> <td>5</td> <td>GND</td> <td>-</td> <td>Ground</td> </tr> <tr> <td>6</td> <td>DSR</td> <td>Input</td> <td>Power</td> </tr> <tr> <td>9</td> <td>-</td> <td>Input</td> <td>Power</td> </tr> </tbody> </table> <p>The setting is fixed as follows: Baud rate: 2400 bps, Parity: Even, Bit length: 7bit, Stop bit: 1bit</p>	Pin	Signal	Direction	Describes	2	RxD	Input	Receive data	3	TxD	Output	Transmit data	5	GND	-	Ground	6	DSR	Input	Power	9	-	Input	Power
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*3: Refer to the A&D website for more information.

6. Accessories

You can use the following accessories for this device:

- AX-TB301 + AX-TB-AMB2A12BK: AC adaptor and USB cable
- AX-KO5363-30: Connection cable for a weighing device with D-Sub 25 pin
- AX-KO5543-100: Connection cable for a weighing device with DIN 7 pin

7. About Bluetooth Communication

When using this device for data transfer, ensure an unobstructed distance of no more than 10 meters. This device uses Bluetooth for wireless communication, and obstacles such as walls can reduce data transmission distance. Devices such as the following that use the 2.4 GHz bandwidth may cause interference when used close to this device.

- Wireless LAN
 - Devices with built-in Bluetooth (PC, tablets, smartphones, etc.)
 - Home appliances such as microwave ovens
- Therefore, this device is not suitable for applications where reliability is a primary concern.

8. Precautions Related to Radio Wave

8-1. FCC

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:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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.

Note:

Please note that this equipment generates, uses and can radiate radio frequency energy. This equipment has been tested and has been found to comply with the limits of Class A digital devices pursuant to Part 15 of FCC rules. These rules are designed to provide reasonable protection against interference when equipment is operated in a commercial environment. If this unit is operated in a residential area, it may cause some interference and under these circumstances the user would be required to take, at his own expense, whatever measures are necessary to eliminate the interference.
(FCC = Federal Communications Commission in the U.S.A.)

8-2. 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:

- This device may not cause interference.
- 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:

- l'appareil ne doit pas produire de brouillage;
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.