

# WI-680II

## Wireless Indicator

### User Manual

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## 1. Physical Description

### 1.1 Appearance

The WI-680II is a rugged wireless weight indicator supplied in a protective hard carry case. The unit features a built-in thermal printer and a backlit dot-matrix LCD display.

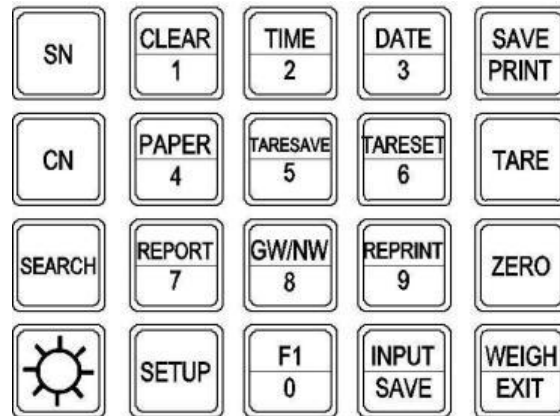


Figure 1 — WI-680II Wireless Indicator

### 1.2 Component Overview

Component	Description
LCD Display	192 × 64 dot-matrix LCD screen with white backlight
Charging Port	Input for charging the internal lithium battery
Power Switch	Turns the indicator on and off
Operation Keys	Keypad for navigation and data entry
Printer	Built-in thermal printer for outputting weight records

## 2. Technical Specifications

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Parameter	Value / Range
Standard	GB/T 11883-2002
Accuracy Class	OIML Class III
A/D Conversion Speed	≥ 50 times per second
Conversion Principle	Sigma-Delta ( $\Sigma$ - $\Delta$ )
Load Cell Supply Voltage	DC 5 V
Load Cell Connection	4-wire
Maximum Internal Count	1,000,000
Data Interface	RS-232 (optional)
Power Supply	Lithium battery — 7.4 V / 4 Ah
Display	192 × 64 dot-matrix LCD, white backlight
Stable Reading Time	≤ 5 seconds
Overload Alarm	Triggered at maximum rated capacity
Operating Temperature	0 °C – 40 °C
Operating Humidity	≤ 85 % RH (non-condensing)
Wireless Range	Up to 400 m (open area)
Radio Frequency	433 MHz






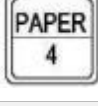




## 3. Product Features










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- Rugged engineering-plastic housing — waterproof, impact-resistant, and durable.
- 192 × 64 dot-matrix LCD with backlight for clear viewing day and night.
- Supports multiple units of measurement (kg, t, lb, kN).
- Built-in real-time clock and calendar — user-settable.
- High-capacity rechargeable lithium battery for extended cordless use.
- High-precision Sigma-Delta ( $\Sigma$ - $\Delta$ ) A/D converter for reliable, accurate readings.

## 4. Key Functions

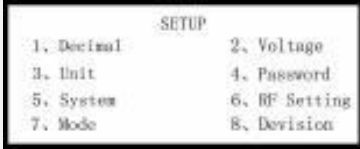

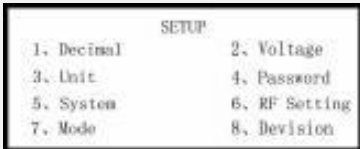

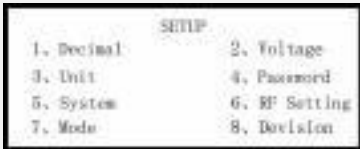


The table below describes the function of each key on the keypad. Keys behave differently depending on whether the device is in weighing mode or settings mode.

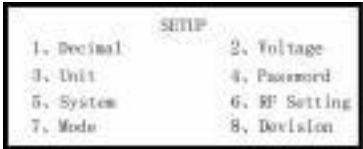
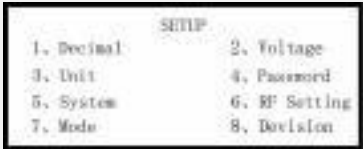
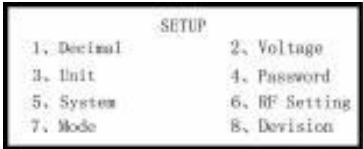

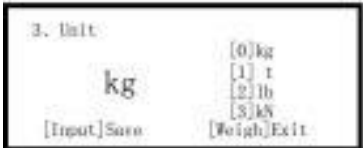
Key	Label	Function
	<b>SN</b>	Weighing mode: Edit the serial number (SN) for the current weighing record.
	<b>CN</b>	Weighing mode: Edit the container / customer number (CN).
	<b>QUERY</b>	Weighing mode: Open the query screen to review historical weighing records.
	<b>LIGHT</b>	Weighing mode: Toggle the screen backlight on or off.
	<b>CLEAR</b>	Weighing mode: Clear all stored historical weighing data. Settings mode: Edit the selected value.
	<b>FEED</b>	Weighing mode: Advance the printer paper by 5 mm (no content is printed). Settings mode: Edit the selected value.
	<b>REPORT</b>	Weighing mode: Print all historical weighing records as a report. Settings mode: Edit the selected value.
	<b>SET</b>	Weighing mode: Enter the settings menu.
	<b>TIME</b>	Weighing mode: View or adjust the current time. Settings mode: Edit the selected value.
	<b>TARE</b>	Weighing mode: Remove and save the tare weight. Settings mode: Edit the selected value.

Key	Label	Function
	<b>GW / NW</b>	Weighing mode: Switch the display between gross weight and net weight. Settings mode: Edit the selected value.
	<b>ACCUM</b>	Weighing mode: Add the current reading to the accumulated total.
	<b>DATE</b>	Weighing mode: View or adjust the current date. Settings mode: Edit the selected value.
	<b>TARE SET / TARE SAVE</b>	Weighing mode: <ul style="list-style-type: none"> <li>• TARE SET — Manually enter a tare weight (e.g. type 10 kg to deduct a 10 kg container).</li> <li>• TARE SAVE — Save the current reading as a tare value; press GW/NW to activate.</li> </ul> Settings mode: Edit the selected value.
	<b>RETYPE</b>	Weighing mode: Re-enter data for the current record. Settings mode: Edit the selected value.
	<b>OK / SAVE</b>	Settings mode: Confirm and save the current value.
	<b>PRINT / SAVE</b>	Weighing mode: Save the current weighing record to instrument memory and print a ticket. Saved records can be retrieved using the QUERY function.
	<b>TARE CLR</b>	Weighing mode: Clear (remove) the currently active tare weight.
	<b>ZERO</b>	Weighing mode: Set the current reading as the zero reference point.
—	<b>DETAIL / ESC</b>	Weighing mode: Display the individual reading from each connected weighing pad. Settings mode: Exit and return to the weighing screen.

## 5. Parameter Settings


Follow the steps below to configure the instrument parameters. Use the arrow keys to change values and press OK/SAVE to confirm each setting.

Step	Action	Description	Display
1	Press SET	Enter the parameter settings menu.	
2	Adjust value	Decimal places — select the number of decimal places to suit your scale range and accuracy. Options: 0, 1, 2, or 3.	
3	Press OK/SAVE	Save the decimal place setting and return to the settings menu.	
4	Adjust value	Graduation (index) value — select the smallest displayed increment. Options: 1, 2, 5, 10, 20, 50, or 100.	
5	Press OK/SAVE	Save the graduation value and return to the settings menu.	
6	Adjust value	Unit of measurement — choose: kg, t, lb, or kN.	
7	Press OK/SAVE	Save the unit setting and return to the settings menu.	

Step	Action	Description	Display
8	Press OK/SAVE	Save filter settings and return to the settings menu.	
9	Press OK/SAVE	Save additional settings and return to the settings menu.	
10	Adjust value	Operating mode — select Two-Way mode, then enter the number of connected weighing pads (1–12).	
11	Press OK/SAVE	Save the operating mode and return to the settings menu.	
12	Review / adjust	Other settings: • View the current battery voltage. • Enable or disable automatic printing when a record is saved.	
13	Press DETAIL / ESC	Exit the settings menu and return to the weighing screen.	—

## 6. Calibration

Calibration adjusts the instrument to ensure accurate weight readings. Perform calibration when the instrument is first installed, after moving the equipment, or whenever readings appear inaccurate.


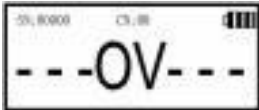


Step	Action	Description	Display
1	Press SET	Enter the parameter settings menu.	

Step	Action	Description	Display
2	Enter password	Using the keypad, enter the calibration password: 782688	
3	Press OK/SAVE	Enter the calibration screen.	
4	Enter max capacity	Type the maximum rated capacity of the scale. Example: 16000 kg. Press OK/SAVE to confirm.	
5	Zero calibration	Ensure there is no load on the scale (empty/unloaded). Press OK/SAVE to record the zero reference point.	
6	Load calibration	Place a known reference weight on the scale. Enter the exact weight value (e.g. 15000 kg) and press OK/SAVE to complete the span calibration.	
7	Press OK/SAVE	Save all calibration data.	
8	Press DETAIL / ESC	Exit calibration and return to the weighing screen.	—

*Note: When one indicator is used with multiple weighing pads, each pad must be calibrated separately by repeating the steps above.*

## 7. Fault Diagnosis

If the display shows an error or the instrument behaves unexpectedly, refer to the table below.

#	Display	Meaning	Corrective Action
1		No wireless signal received from the scale pad.	1. Check that both the indicator and the weighing pad are powered on. 2. Check that the antenna on the weighing pad is correctly fitted.
2		The weight on the scale exceeds the maximum rated capacity.	Remove weight from the scale until the reading is within the rated range.
3		The indicator (handheld unit) battery is low.	Charge the indicator using the supplied charger.
4		The weighing pad battery is low. The pad transmitter will shut down automatically after a few seconds.	Charge the weighing pad using the supplied charger.

## 8. Safety and Precautions

### ▲ Warning — Qualified Personnel Only

Adjustment, calibration, testing, and maintenance of this equipment must only be carried out by qualified personnel.

### ▲ Warning — Do Not Overload

Never load the scale beyond its rated maximum capacity. Overloading will damage the equipment.

Please observe the following precautions to ensure safe and reliable operation:

- Avoid direct sunlight. Prolonged exposure to direct sunlight can reduce display clarity and shorten the service life of the equipment.
- Take anti-static precautions. This is sensitive electronic equipment. Do not perform spot-welding or other high-current operations near the instrument.
- Avoid wet or outdoor environments. Do not leave the equipment outdoors during rain or thunderstorms. Switch the equipment off if there is a risk of exposure to moisture.
- Do not use strong solvents to clean the equipment. Use only a dry or lightly damp cloth.
- Do not allow any liquid or conductive particles to enter the equipment. This may damage the instrument or create an electric-shock hazard.

## 9. Print Format

The built-in thermal printer outputs a ticket for each saved weighing record. A sample printout from the original instrument is shown below:



Figure 2 — Example printer ticket output

## 10. Packing List

After unpacking, check that all items listed below are included. If anything is missing or damaged, please contact Smartweigh immediately.

#	Item	Model / Specification	Qty	Notes
1	WI-680II Wireless Indicator	As ordered	1	
2	User Manual	This document	1	
3a	Charger	GB standard / DC 8.4 V	1	China plug
3b	Charger	US standard / DC 8.4 V	1	US / Canada plug
3c	Charger	UK standard / DC 8.4 V	1	UK / HK plug
3d	Charger	EU standard / DC 8.4 V	1	European plug
3e	Charger	AU standard / DC 8.4 V	1	Australia / NZ plug
4	Packing material	—	1	

*Only one charger type will be included, matching the region specified at the time of order.*