

# WS-1020 Weighing System



**User Manual Version. 2.20**

# Packing list

 A square-shaped electronic device with a blue and orange gradient. It features a digital display, several control buttons, and a USB port. The JRL logo and model number WS-1020 are visible at the bottom.	<p>WS-1020</p>
 A black metal hanging plate with a long vertical rod and a horizontal base.	<p>Hanging plate</p>
 A black power cord with a standard AC power plug and a two-pronged DC power plug.	<p>Power cord</p>

# WS-1020 Panel Detail



- |                               |                             |
|-------------------------------|-----------------------------|
| 1. Socket for USB Flash Drive | 2. Button "TARE"            |
| 3. Button "ESCAPE"            | 4. Button "Function"        |
| 5. Button "UP"                | 6. Button "Down"            |
| 7. Button "ENTER"             | 8. TARE Lamp                |
| 9. STATUS Lamp                | 10. Main Display            |
| 11. Hanging support           | 12. Hooks for hanging plate |
| 13. On-Off Switch             | 14. Fuse                    |
| 15. Socket for AC Power cord  |                             |

## Specification

Maximum weight	Up to 10 Kg
Main Display	4 Digit
Weight Display Unit	Gram
Accuracy	1 Gram
Electrical system	220 VAC 50 / 60 Hz 10 Watt
Size / Weight	20 x 20 x 10 cm.. / 1.2 Kg
Plate size / Hanging pole high / weight	22 x 22 x 2.5 cm. / 105 cm. / 1.0 Kg

## Operation

WS-1020 Weighing system it's Automatic working, After Installation. Please follow these step:

1. Setup Date/Time. To the current time.
2. Switch off power and plug USB flash drive to socket.
3. Switch On again.
4. Be sure to switch off. Before plug or unplug USB flash drive. To prevent damage to the USB flash drive

# Installation

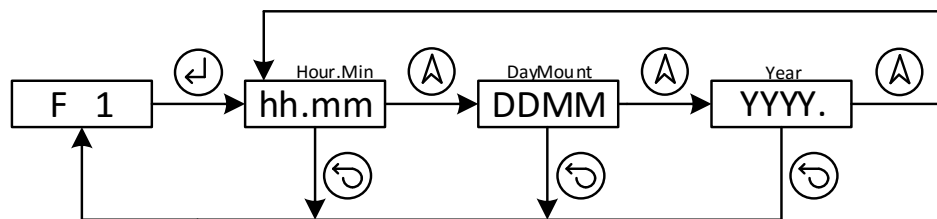


1. Hang the weighing system with the distance of 1-3 cm. above the ground.
2. Set Date/Time to the current time
3. Plug the USB Flash Drive to socket.
4. Switch On.
5. Ready.

# Setup

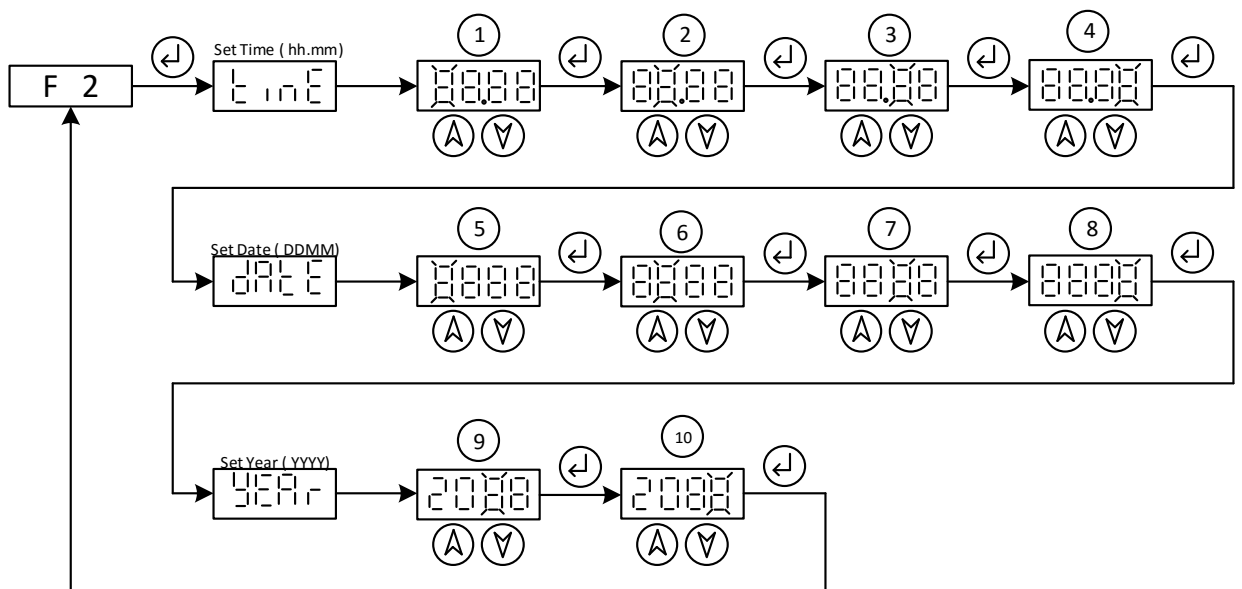
The Function is active, all 3 function is F 1, F 2, and F 3. The details are as follows:

## 1. Function F 1 for Display Date/Time



1.1 Press go to F 1 and press Display show TIME (hh.mm) and press to display date month or year , press return to F 1 and press again ,Return to main display.

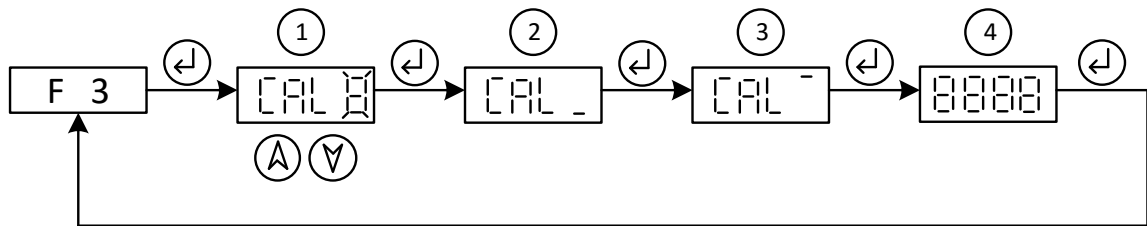
## 2. Function F 2 for setup Date/Time



2.1 Step of setup is described in sequence 1 – 10

2.2 Press  $\odot$  go to F 2 and press  $\leftarrow$  Display show time and change to number 4 digit. The left digit is flashes. Press  $\uparrow$  or  $\downarrow$  to adjust. Set up from sequence 1 to sequence 10. "When the setting are done, Display show F 2. Press  $\odot$  to exit function. And go to main display.

### 3. Function F 3 For weight calibration



3.1 Press  $\odot$  go to F 3 , press  $\leftarrow$  go to sequence 1 .press  $\uparrow$  or  $\downarrow$  to select calibration weight. If select number 1 calibration weight is 1000 gram , If select number 2 weight calibration is 2000 gram , and maximum calibration weight is 7 (7000 gram) , press  $\leftarrow$  go to sequence 2

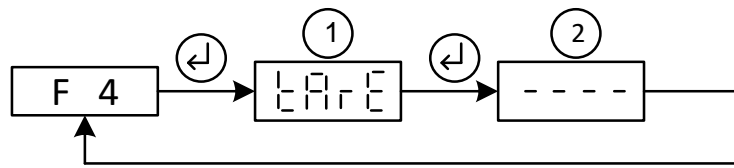
3.2 sequence 2 set zero weight ( 0 gram ) remove all weight, and press  $\leftarrow$  go to sequence 3



3.3 Sequence 3 set span weight . Placing equal weight on the select in sequence 1, and press  $\leftarrow$  go to sequence 4


3.4 Sequence 4 . Display show the calculate number .When the number do not swing, press  $\leftarrow$  long beep sound and return to F 3 display. Finish calibration.

3.5 Press  $\odot$  return to main display.

#### 4. Function F 4 for Tare Object.

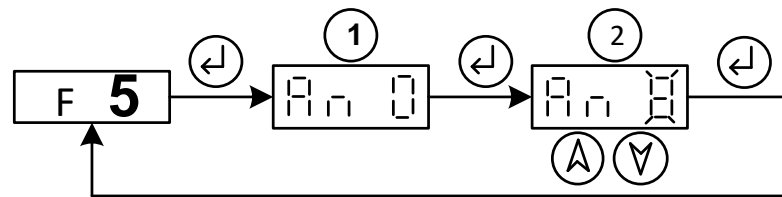




4.1 Press  go to F 4 and press  go to step 1.


4.2 Put the object into hook. Press  Display show step 2.  
Please wait display show F 4.

4.3 Press  return to main display.


#### 5. Function F 5 for Mode setting ( Automatic or Manual )



5.1 Press  go to F 5 and press  go to step 1. Display show current mode.

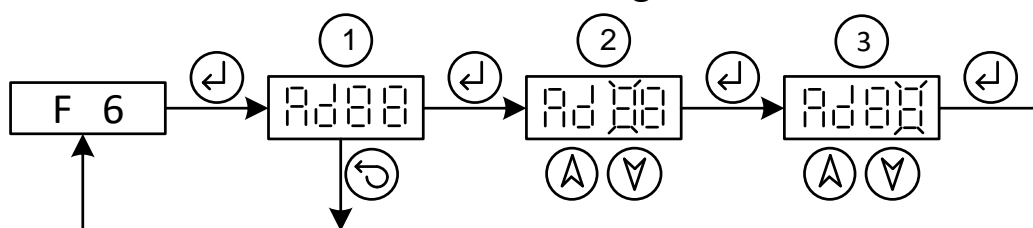
5.2 Press  to setup, press up or down to change mode, "0" = Automatic Mode and "1" = Manual Mode.

5.3 Press  to finish setup display show F 5.

Press  return to main display.



## 6. Function F 6 for Station number setting.



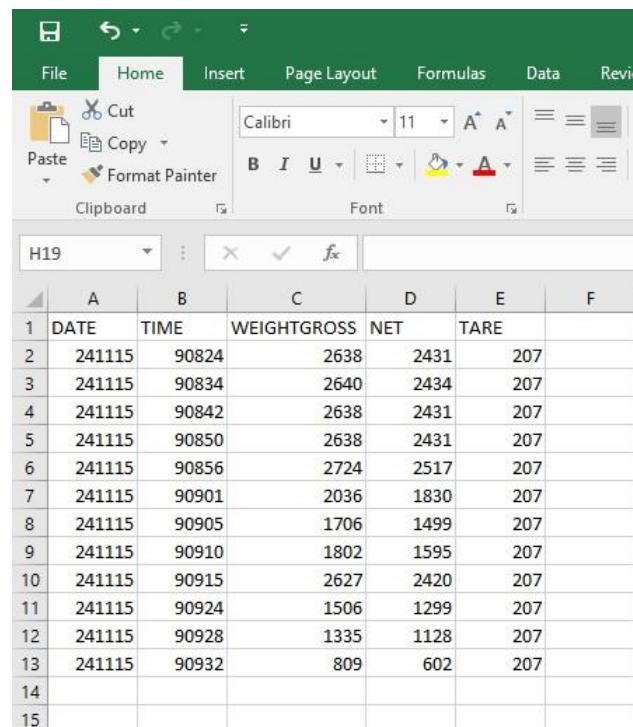
- 6.1 Press go to F 6 and press go to step 1. Display show current station number.
- 6.2 Press to exit or press to setup.
- 6.3 Setup station number step 2, 3 and press to finish setup.
- 6.4 Press return to main display.

## How to use Manual Mode

1. Setup Function F 5, select "1" and return to main display.
2. Press to clear zero value.
3. Press go to Function F 4 and setup.
4. Usability
  - 4.1 Press to clear zero value.
  - 4.2 Put the object into hook.
  - 4.3 When the weight is stable, press to record data (The status is light on while recording and light off when the recording end.)
  - 4.4 Take off the weight and follow to step 4.1-4.3 when a new weight.
5. Tare object in the function F 4, Must be done every time you open a new scale to use. Remember this must be made each time to ensure the accuracy of weight.

# Using Log data

1. Logging data in USB Flash Drive. Be record in CSV Format. Which can be opened with Microsoft Excel. Record file name is SCALE.CSV
2. The record data include DATE, TIME and WEIGHT



	A	B	C	D	E	F
1	DATE	TIME	WEIGHTGROSS	NET	TARE	
2	241115	90824	2638	2431	207	
3	241115	90834	2640	2434	207	
4	241115	90842	2638	2431	207	
5	241115	90850	2638	2431	207	
6	241115	90856	2724	2517	207	
7	241115	90901	2036	1830	207	
8	241115	90905	1706	1499	207	
9	241115	90910	1802	1595	207	
10	241115	90915	2627	2420	207	
11	241115	90924	1506	1299	207	
12	241115	90928	1335	1128	207	
13	241115	90932	809	602	207	
14						
15						

## **Safety Instruction**

1. Read all instruction before using the weighing system.
2. Check if the voltage indicated on the weighing system corresponds to the main voltage at your place which is 220 VAC 50/60 Hz.
3. DO NOT operate the weighing system with a damaged cord or plug or if it has been damaged in any manner.
4. DO NOT modify the plug.

## **Cleaning Instruction**

1. Always disconnect weighing system from the main supply before cleaning.
2. NEVER immerse weighing system in water or other liquid.
3. Wipe the housing with a damp cloth.
4. Hanging plate can be removed and cleaned with detergent. Dry it before using.