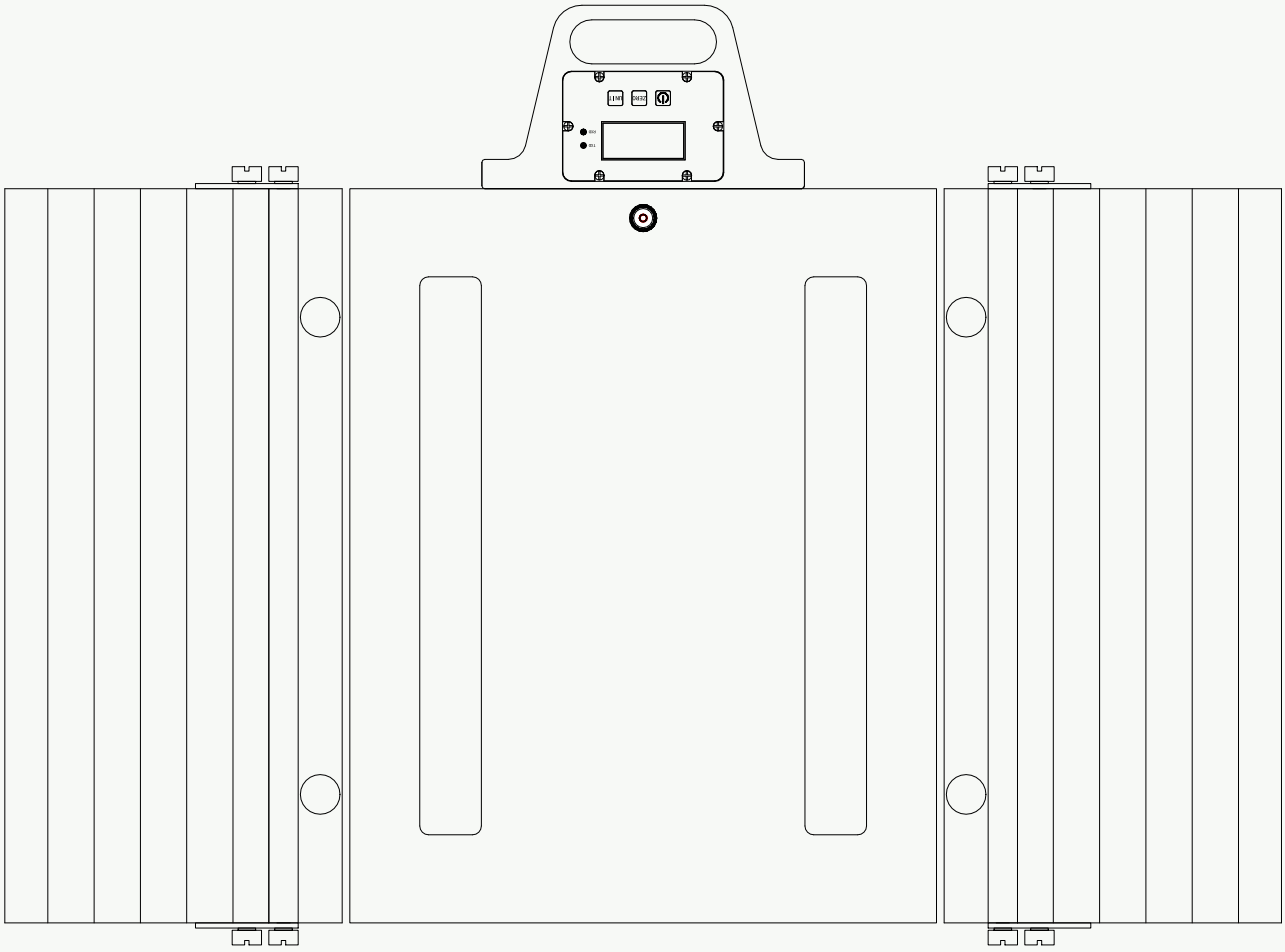
LP7660V/W

Wireless Axle Scale

User Manual



Safety Instruction

For safety operation, please follow the safety instruction.

Warning
Setting, calibration, inspection and maintain of the indicator is prohibited by non-professional staff.

Warning
Please make sure the weighing display have good ground in using.

	Warning The indicator is the static and sensitive equipment, cut off the power during electrical connections, internal components touched by hand is prohibited, and please take the measure of anti-static.

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1. Introduction

1.1 Brief Introduction

The axle scale is equipped with a portable wireless static weighing indicator that can be simultaneously connected to six scale plates at most (effective distance is 80m). The weighing modes are divided into the ordinary weighing mode, cumulative weighing mode, and automatic weighing mode. A variety of weighing modes to meet different needs and wireless communication makes the installation and use of the device easier.

The indicator has a built-in 6V/4AH storage battery, which can be charged with a 9V/1.2A adapter. It can be equipped with a built-in micro impact printer for real-time queries of date and time. The indicator adopts an LCD screen, 6-digit display, word height 25mm, real-time displays the weight value or total weight value carried on each scale plate. You can press the key to convert the display interface and see the percentage of each scale plate. The indicator has functions such as peel, zero, print, store, check and delete.

The transmitter has a built-in 3.7V/4Ah Li-ion battery, which can be charged with a 4.2V/1A Li-ion battery charger. The battery enduring life is 40 hours. The screen is an LCD display, word height 17mm. The weight carried by the scale plate can be displayed in real-time. You can press the key to calibrate, convert unit and set zero.

This axle scale has the characteristics of convenient carrying, simple operating, longtime working, functional and high-precision.

1.2 Technical Parameter

1.2.1 Indicator Technical Parameter

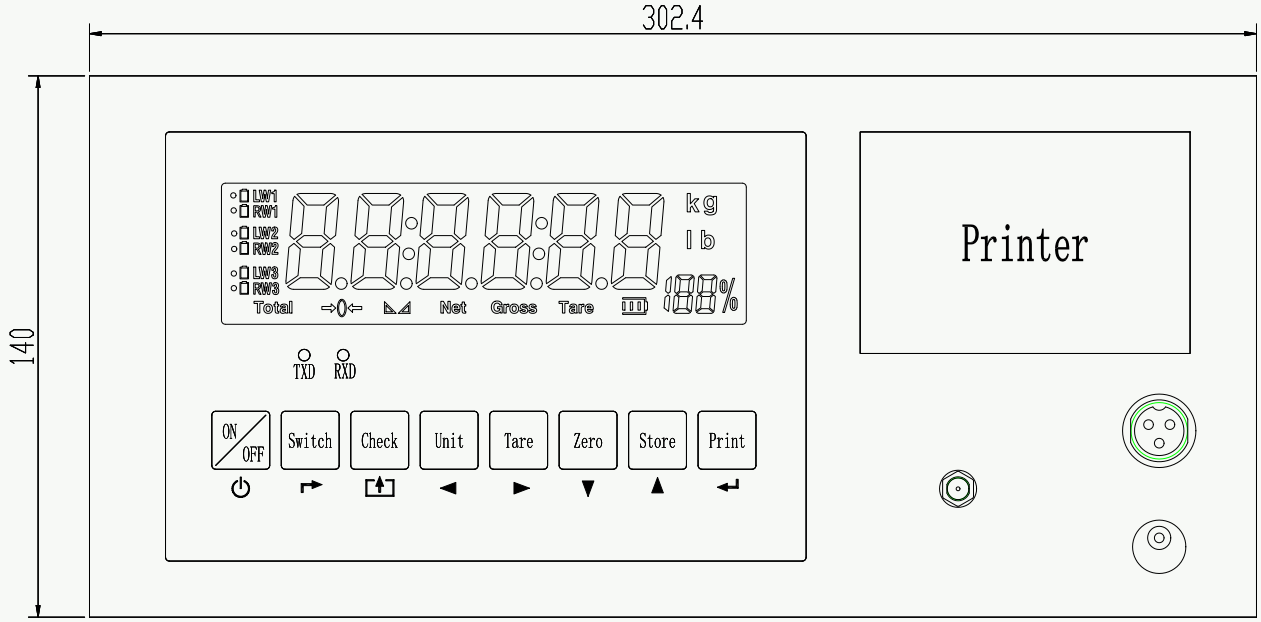
>> Initial zero range	±10%Max
>> Manually zero range	±2% Max
>> Tare range	2% ~ 100% Max
>> Zero tracking rate	0.5d/s
>> Communication distance	≤50m
>> AC power	110 ~ 240VAC, 50/60HZ, 9VDC

1.2.2 Scale Plate Technical Parameter

>> Minimum signal voltage	1uv/e
>> Communication distance	≤50m
>> Transmitter excitation circuit	3VDC, 4 wire connection, Maximum connect 8 load cells of 1000Ω
>> AC power	110 ~ 240V AC, 50/60HZ, 4.2VDC
>> Operation temperature & humidity	-10℃ ~ +40℃, ≤85%RH

1.3 Specification

1.3.1 Indicator Drawing



LP7561ARF

1.3.2 Indicator Instruction

Type	Installation	Print	Interface	Communication interface
LP7561ARF	ABS box	Needle printer	Front	M16-3B

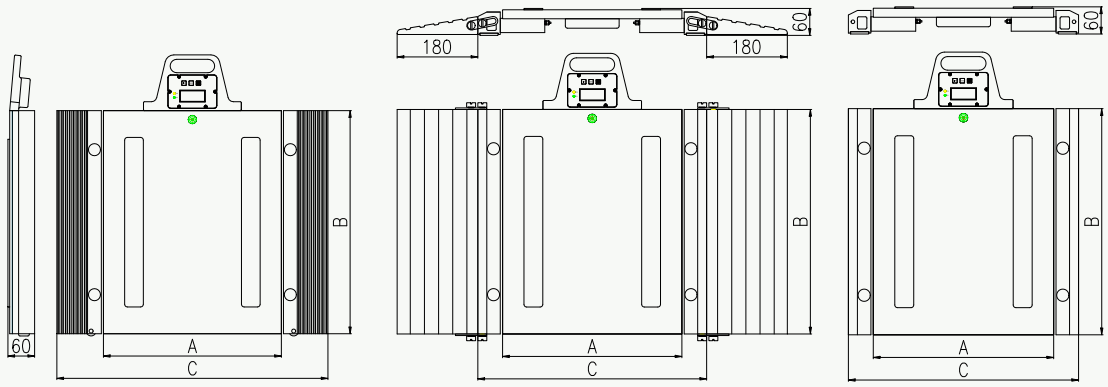
1.3.3 Scale Instruction

Scale type
YZ type: ordinary ramp, narrow bottom
EZ type: reversible ramp, narrow bottom
(With reversible rubber ramp, the slope is slow, and the grip is stronger)
FZ type: narrow ramp, narrow bottom
(No rubber ramp, can be used for embedded ground installation)

Model	Scale material	Scale thickness（mm）	Ramp	Ramp material	Ramp dimension（mm）	Load cell
LP7660V-YZ	Aluminum alloy	20	Ordinary	Aluminum alloy	100*50	LP7110H-1~3t
LP7660V-EZ	Aluminum alloy	20	Reversible	Aluminum alloy	50*50	LP7110H-1~3t
				Rubber	180*40	LP7110H-1~3t
LP7660V-FZ	Aluminum alloy	20	Narrow	Aluminum alloy	50*50	LP7110H-1~3t

1.3.4 Scale Plate Specification

Take the scale size 400*500 (mm) as an example:



LP7660V-Y-4050 LP7660V-E-4050 LP7660V-F-4050

Note: In the drawing, A means scale width, B means scale length, C means plate width.

Axle scale specification

No.	Axle scale	Capacity (t)	Dimension (mm)			Plate weight (kg)	Load cell
			A	B	C		
1	LP7660V-YZ-3040	0.5~5	300	400	540	15	4
2	LP7660V-YZ-4050	1.5~5	400	500	640	18	4
3	LP7660V-YZ-4570	5~15	450	700	690	30	6
4	LP7660V-YZ-5090	10~20	500	900	740	50	8
5	LP7660V-YZ-6090	10~20	600	900	840	65	8
6	LP7660V-EZ-3040	0.5~5	300	400	410	16	4
7	LP7660V-EZ-4050	1.5~5	400	500	510	20	4
8	LP7660V-EZ-4570	5~15	450	700	560	35	6
9	LP7660V-EZ-5090	10~20	500	900	610	60	8
10	LP7660V-EZ-6090	10~20	600	900	710	75	8
11~15	The specification of LP7660V-FZ refers to the LP7660V-EZ.						

Note: The above model example LP7660V is the wireless band display version,If the scale is without display, the model is LP7660W.

1.4 Battery Introduction

1.4.1 Indicator Storage Battery

1. When you use the internal battery first time, you should charge up the battery to prevent low voltage resulted from self leakage of battery.
2. When the right corner of LCD shows  and flashes, please recharge the battery.
3. When the indicator shows  and stops flashing, it means charging finish.
4. If you don't use the indicator for a long time, please take out the battery to protect the indicator from the battery leakage.
5. It is recommended that the battery be discharged completely once a month. Method: use the indicator until the battery is exhausted and automatically shut down.

1.4.2 Transmitter Li-ion Battery

1. When you use the internal battery first time, you should charge up the battery with the specified charger.
2. When the LCD left light  is on, it means the power of the transmitter is sufficient and can work normally.
3. When the LCD left light  flashes and shows Lobat, please recharge the battery.
4. If you don't use the indicator for a long time, please recharge the battery every two months.
5. You can see the battery voltage in the F7 menu, charging is required when it is below 3.5V.

2. Inspection And calibration

2.1 Open To Check

In order to well use the indicator, please check all the parts carefully according to the packing list attached in the specification while opening the indicator box. If there is a lack of parts or damage, please contact our after-sales service department to get timely processing.

2.2 Power Connection

The indicator is powered by 6V/4Ah storage battery, you can charge it up with the matched 9V/ 1.2A adapter.

The transmitter is powered by 3.7V/4Ah Li-ion battery, you can charge it up with the matched 4.2V/1A adapter.

When charging, plug the charger into the DC interface.

The indicator adapter is not interoperable with the transmitter Li-ion battery charger.

2.3 Scale Quantity

When the indicator set [SEL X], X means the connected scale quantity. The name of the connected scale is as follows.

Scale No.	Name of the connected scale	Indicator setting
1	LW1	[SEL 1]
2	LW1, RW1	[SEL 2]
3	LW1, LW2, RW2	[SEL 3]
4	LW1, RW1, LW2, RW2	[SEL 4]
6	LW1, RW1, LW2, RW2, LW3, RW3	[SEL 6]

If you temporarily reduce the number of scales, you need to change the indicator [SEL x] menu setting. After using it, you can change the menu to the original value.

If you increase the number of scales and combine the scales of multiple equipment, please consult your local distributor.

2.4 Weighing Mode

2.4.1 Ordinary Weighing Mode

When set [PF 0] and [PM 1], the indicator is in manual weighing mode and ordinary printing format. At this time, the indicator can be connected with 1/2/3/4/6 scale plate for weighing. Press Print to get the weighing note and keep the weighing record.

For example, the indicator is connected with 3 scales to weigh an airplane.

a. Use LW1, RW1, LW2 scale to weigh;

b. Parameter setting: scale quantity [SEL 3] and print format [PM 1];

c. Power on. Pilot the airplane onto three scales. Press Switch to get the total weight of the airplane, the three wheels' weight and the percentage of each wheel. After the data is stable, press Print to get the weighing note and keep the weighing record.

2.4.2 Cumulative Weighing Mode

When set [PF 0] and [PM 2], the indicator is in manual weighing mode and cumulative print format. At this time, the indicator can be connected with 2/4/6 scale plate for weighing. Press Store to accumulate, press Print to get the total weight and keep the weighing record.

For example, the indicator is connected with 2 scales to weigh a 3-axle truck.

a. Use LW1, RW1 scale to weigh;

b. Parameter setting: scale quantity [SEL 2] and print format [PM 2];

c. Power on. Drive the first axle of the truck to these two scales. Press Switch to get the axle weight, the two wheels' weight and the percentage of each wheel. After the data is stable, press Store to accumulate and print the axle weight;

d. Drive the second axle of the truck to these two scales. Accumulate and print the axle weight according to step c;

e. Drive the third axle of the truck to these two scales. Accumulate and print the axle weight according to step c;

f. Press Print to get total weight and keep the weighing record.

2.4.3 Automatic Weighing Mode

When set [PF 1] and [ALE X], the indicator is in automatic weighing mode. After the data is stable, the indicator will keep the weighing record and print.

Note: In cumulative mode, the X in [ALE X] means the integer times of the axles.

For example, the indicator is connected with 2 scales to weigh a 3-axles truck.

a. Use LW1, RW1 scale to weigh;

b. Parameter setting: scale quantity [SEL 2], print format [PM 2], weighing mode [PF 1], axle quantity [ALE 03].

c. Power on. Drive the first axle of the truck to these two scales. After the data is stable, the indicator will accumulate and print the axle weight.

d. Drive the second axle of the truck to these two scales. After the data is stable, the indicator will accumulate and print the axle weight.

e. Drive the third axle of the truck to these two scales. After the data is stable, the

indicator will accumulate and print the axle weight.

f. The indicator will automatically print total weight and keep the weighing record.

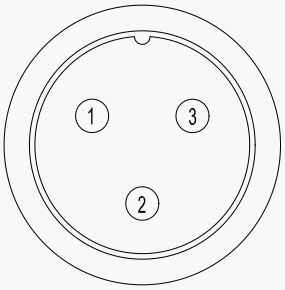
Note: Press Print to finish the printing ahead of schedule.

2.5 Communication Interface

External communication can be done through RS232 interface.

Communication interface has M16-3.

The definition of M16-3 pin:



The function of pin:

M16-3B pin	Definition	Function
1	TXD	Send signal
2	RXD	Receive signal
3	GND	Ground interface

3. Indicator Basic Operation

3.1 Keypad And Display



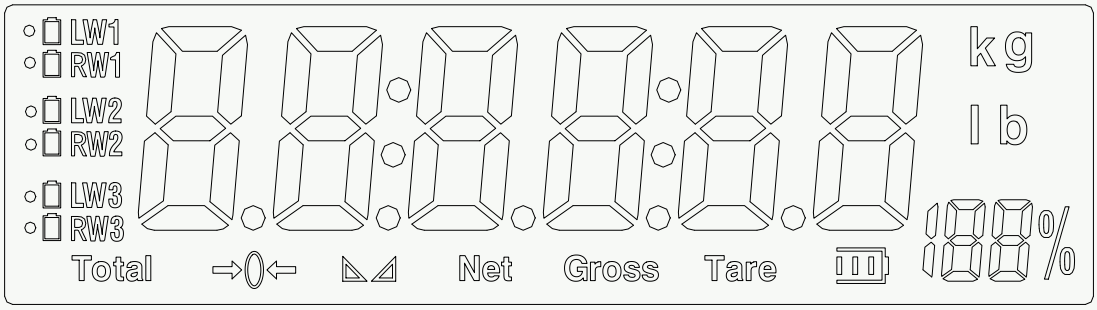
3.1.1 Keypad

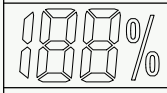
Key	Name	Function
ON/OFF	Power on/off	Press 1 second to power on or power off.
Switch	Switch	Switch the weight between the pad weight and the total weight. Press together with Print can enter setting menu.
Check	Check	Check and read the saved weighing data to print.
Unit	Unit	Covert between kg and lb.
Tare	Tare	At GW mode, get the tare weight. At NW mode, clear the tare, get the GW.
Zero	Zero	Zero the weight within tolerance.
Store	Store	In accumulative mode, to accumulate the axle weight and print the data. Press together with Print can get the last data.
Print	Print	Get the weighing data.

3.1.2 Indicator light

Name	Function	Color
TXD	Send signal	Green
RXD	Receive signal	Red

3.1.3 LCD display



LCD display	Instruction
	Weighing data
	Weight percentage
Kg	Weight unit kg
lb	Weight unit lb
Tare	Tare
Gross	Gross weight
Net	Net weight
	The weighing data is stable
	Weight is zero
LW1	The weight of the left wheel 1
RW1	The weight of the right wheel 1
LW2	The weight of the left wheel 2
RW2	The weight of the right wheel 2
LW3	The weight of the left wheel 3
RW3	The weight of the right wheel 3
Total	Total weight
	Transmitter battery power and connection
	Indicator battery power

3.2 Power on/off

Note: When using, the transmitter should be turned on first, and then the instrument should be turned on to make the instrument wake up the transmitter

Press and hold the "ON/OFF" button for 1 second to turn on or off the instrument.

When starting up, the instrument performs a self-test and wakes up the transmitter If the TXD indicator blinks, the wake up command is being sent. After the transmitter successfully wakes up, the indicator RXD blinks. After the self-test, the current voltage value of the instrument battery will be displayed, and then enter the weighing state.

Note: If display ERR01-ERR06 after self-checking, please check the aerial connector and the transmitter.

3.3 Zero

Within zero range, press Zero, the indicator weighing is cleared.

When the scale is in the following state, zero is unworkable:

1. ERR10: the weight is unstable;
2. ERR11: in tare state;
3. ERR12: the weight is out of the zero range.

3.4 Tare

In ordinary weighing mode, press Tare to make the current weight be the tare. In cumulative weighing mode, press Tare to preset the tare, press Print to confirm, the indicator displays the net weight. At that time, the LCD screen displays Net and Tare. In tare mode, press Tare to clear the tare value, the indicator will display gross weight.

Note: tare mode can only be seen on the total weight interface.

3.5 Unit convert

At weighing mode, press Unit to convert kg and lb.

When set to [F58 0], the unit can’t be converted. When set to [F58 1], the unit can be converted.

Note: the unit can’t be converted in cumulative weighing mode.

3.6 Check

After power-on, press Check to enter/exit the query interface.

For example**,** after power-on, press Check to enter the query interface, display C 0030 (save 30 weighing records). When input C 0020, press Print to see 20 weighing records, display REAd-0, choose 1 and press Print to confirm, the indicator will display date, time, axle, tare and total weight. Display Print0, choose 1 and press Print to confirm, the indicator will print a note and then return to query interface, display C 0020. Finally, press Check to exit.

Note: 1200 weighing records at most. You can delete record in the F8 menu.

3.7 Switch

In ordinary weighing mode, press Switch to choose weight value interface, you can see the weight of each wheel, the total weight, and the wheel weight percentage.

3.8 Print

Set [PM =1], in the ordinary weighing mode, press the "Print" key to print the weight value after the weight is stable.

Set [PM =2], in the cumulative weighing mode, after the weight is stable, press the "Store" key to print the axle weight, and press the "print" key to print the total weight after all the accumulation is completed.

Set [PF =1], in the automatic printing mode, after the weight is stable, the indicator will automatically perform the accumulation/printing operation according to the current weighing mode.

At the end of each print, you need to return to zero before the next add/print.

Note:

1. When weighing automatically, if the number of axes loaded has not reached the number of axles setting in the instrument, you can directly press the "print" key to manually print the total weight value.

2. automatic printing, after each printing, you need to return to zero before the next accumulation/printing.

3. press the "store" and "print" keys at the same time, you can print multiple copies of the last weighing documents.

4. you can set the print-related functions in the instrument menu F3.

4. Function Parameter

4.1 Enter

After power-on, press Switch and Print simultaneously to set parameter in menu F1-F9.

Key function:

Key		Name	Function
Check		Exit	Back to the previous menu Back to weighing mode
Unit	◄	Left	Select the value you want
Tare	►	Right	Select the value you want
Zero	▲	Up	Increase number
Store	▼	Down	Reduce number
Print	↵	Enter	Confirm the input value Go to the next step

4.2 Parameter Setting

F1：Parameter setting, setting unit, decimal, division and capacity.

Step	Operation	Display	Remark
		[F 1]	F1 menu
1	Press ▲/▼ Press ↵	[Unit-0]	Unit:0/1(kg/lb)
2	Press ▲/▼ Press ↵	[dot--0]	Point number:0/1/2/3/4
3	Press ▲/▼ Press ↵	[E - 05]	Graduation setting:1,2,5,10,20,50
4	Press ▲/▼or ►/◄ Press ↵	[005000] [010000]	Max capacity of single scale. The max. span is 10000

F2 menu : Calibration parameters are set for zero point and load calibration of each connected scale, and save calibration parameters.

step	operation	display	remark
		[F 2]	**F2 menu**
1	Press ▲/▼ Press ↵	[SEL 2]	Pad choose:calibration for the 2nd pad
2	Press ▲/▼ Press ↵	[CAL 0] [CAL 1] [9] [0]	Zero Calibration: 0=No need calibration 1= need calibration
3	Press ▲/▼ Press ↵	[SPA 0] [SPA 1]	0=Skip loading calibration 1=Loading calibration
4	Press ▲/▼or ►/◄ Press ↵	[010000]	Loading calibration: Setting loading 10000 an put the 10000kg weight on the 2nd pad. Load at least 10% of the maximum capacity

F3-F9 menu :

Step	Operation	Display	Note
		[F 3]	**F3 menu**
1	Press▲/▼ Press↵ confirm	[NUM 01]~ [NUM 04] [NUM 11]~ [NUM 14]	[NUM 01] : The first digit indicates whether printing requires loading. 0=Can be printed by empty scale, 1=Needs to be loaded for printing; The second digit indicates the number of channels. The optional values are 1/2/3/4, corresponding to four working modes.
2	Press▲/▼or►/◄ Press↵confirm	[Car 0]	0=Don't change car number 1=Change car number
3	Press▲/▼or►/◄ Press↵confirm	[0000]	Enter a 4-digit car number Corresponding to the "Vehicle" in the printed document
4	Press▲/▼ Press↵ confirm	[OPE 0]	0=Don't change operator number 1=Change operator number
5	Press▲/▼ Press↵ confirm	[00]	Enter a 2-digit employee number Corresponding to the "Operator" in the printed document

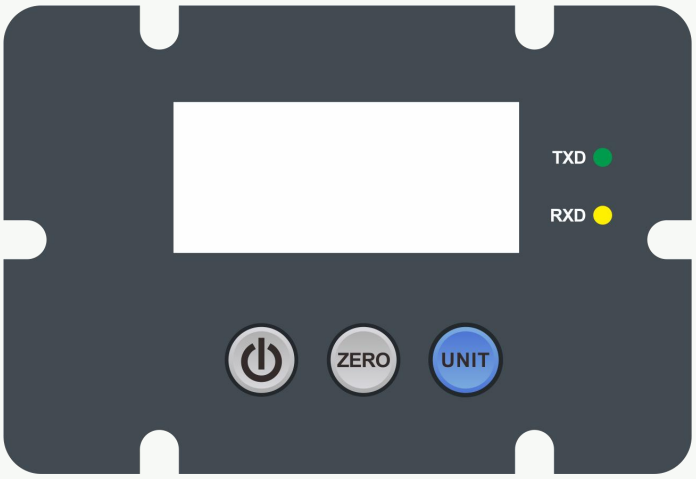
	Press▲/▼ Press↵ confirm	[PF - 1]	Printing format setting 0: No printing 1:normal printing format for normal weighing. 2:Accumulative printing format for accumulative weighing.
	Press▲/▼ Press↵ confirm	[PC - 1]	Printing coupon numbers setting 1/2/3
		[F 4]	**F4 menu**
1	Press ▲/▼ Press ↵	[PM - 1]	Printing method 0: manual 1:automatic
2	Press ▲/▼ Press ↵	[ALE-02]	The number of axle settings In accumulative weighing mode, the number of axle should be pre-setted.
3	Press ▲/▼ Press ↵	[Ztr 0.5]	Set zero tracking range 0.0/0.5/1.0/2.0/3.0/4.0/5.0 *d Note: 0=zero point tracking is turned off;
4	Press ▲/▼ Press ↵	[Ztt 1]	Zero tracking time 0=Off; 1=1 second; 2=2 seconds; 3=3 seconds.
		[F 5]	**F5 menu**
1	Press▲/▼or►/◄ Press↵confirm	[Baud-1]	Baud rating setting 0:600; 1:1200; 2:2400; 3:4800 4:9600; 5:19200; 6:38400 7:57600; 8:115200
2	Press ▲/▼ Press ↵	[CP 1]	Communication setting 0: communication off. 1: communication format 1 for PC. 2:communication format 2 for second display(YAO HUA MODEL). 1.communication format 3 for second display(TOLEDO MODEL). 9.Command operation format.
3	Press▲/▼or►/◄ Press↵confirm	[OFF 00]	Automatic power off setting: 00:no power-off 10:Automatic power-offer after ten min.
4	Press▲/▼or►/◄ Press↵confirm	[OBL 00]	Back lit setting 00:Back lit on 10:Back lit off after ten seconds. Backlist off: in zero condition and no

			operation.
5	Press ▲/▼ Press ↵	[Date 0]	Date format. 0: month day year 1: year month day 2: day month year
6	Press▲/▼or►/◄ Press↵confirm	[15.09.19]	Date setting: [11.08.13]
7	Press▲/▼or►/◄ Press↵confirm	[09:15:11]	Time setting: [15:17:30]
8	Press▲/▼or►/◄ Press↵confirm	[Us 0]	0:stop kg/lb conversion 1:kg/lb conversion is ok
9	Press▲/▼or►/◄ Press↵confirm	[PZ 010]	Zero range for startup. 0~100%
10	Press▲/▼or►/◄ Press↵confirm	[MO 002]	Manual zeroing range setting 0~100%
11	Press ▲/▼ Press ↵	[Ndr 000]	Negative value display range setting 0~100% When set to 0, the default maximum negative value displayed is -20d
		[F 6]	**F6 menu**
1	press ↵	[S-0560]	560 records in indicator. Max. recording is 2000 cps.
2	press ↵	[HE-1.2A]	PCB version 1.2A
3	press ↵	[PCN2.01]	Software version 2.01
	Press↵ confirm	**[F 7]**	**F7 menu**
1	Press↵ confirm	[U XXX]	Indicator voltage
2	Press↵ confirm	[XXXXXX]	LW1 ISN
3	Press↵ confirm	[XXXXXX]	RW1 ISN
4	Press↵ confirm	[XXXXXX]	LW2 ISN
5	Press↵ confirm	[XXXXXX]	RW2 ISN
6	Press↵ confirm	[XXXXXX]	LW3 ISN
7	Press↵ confirm	[XXXXXX]	RW3 ISN
8	Press↵ confirm	[U X.XXX]	LW1 power
9	Press↵ confirm	[U X.XXX]	RW1 power
10	Press↵ confirm	[U X.XXX]	LW2 power
11	Press↵ confirm	[U X.XXX]	RW2 power
12	Press↵ confirm	[U X.XXX]	LW3 power

13	Press↵ confirm	[U X.XXX]	RW3 power
		[F 8]	**F8 menu**
1	Press ▲/▼ Press ↵	[dELA-0] [dELA-1]	0:No deleting the weighing record. 1:Deleting the weighing record.
2	Press ▲/▼ Press ↵	[dEAL-0] [dEAL-1]	0:No deleting all the records. 1:deleting all the records.
		[F 9]	**F9 menu**
1	Press ▲/▼ Press ↵	[dEF 0] [dEF 1]	0: Skip. 1: Initialize parameters. After initialization, re-calibration is required. Please operate with caution
F1 to F2 are the calibration operation instructions, and F9 are the functions of the wireless module. If required, please contact the distributor or manufacturer			

5. Transmitter Basic Operation

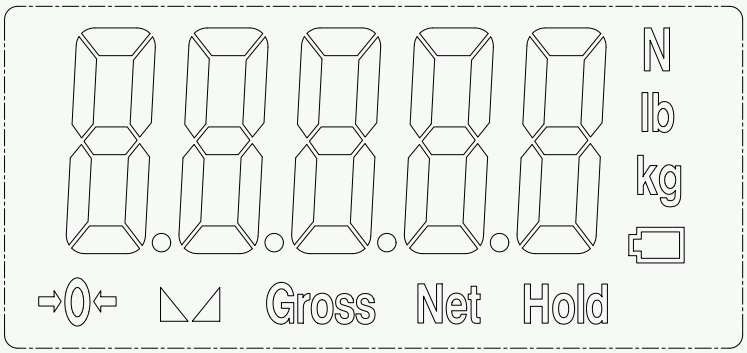
5.1 Keypad And Display



5.1.1 Keypad

Key	Name	Function in weighing	Function in setting	
	Power on/off	Press 1 second to power on or power off.		Left
	Zero	Zero the weight within tolerance.		Increase
	Unit	Covert between kg and lb.		Confirm

5.1.2 LCD Display Instruction



LCD display	Note
	weighing data
Kg	Weight unit kg
lb	Weight unit lb
	Indicator battery power
Net	Net weight
Gross	Gross weight
	The weighing data is stable
	Weight is zero

5.2 Power On/Off

Press  1 second, self-checking and then enter weighing mode。

Press  1 second to power off.

When the battery power is too low, it will automatically power off.
If there is no operation, it will automatically power off.

5.3 Zero

Press  within tolerance, the connected scale are set to zero.

When the scale is in the following state,  is unworkable:

1. ERR 10: the weight is unstable;
2. ERR 11: in tare state;
3. ERR 12: the weight is out of the zero range.

5.4 Unit Convert

Press  to convert kg and lb.

Note: save settings after power off.

5.5 Application function parameter setting table

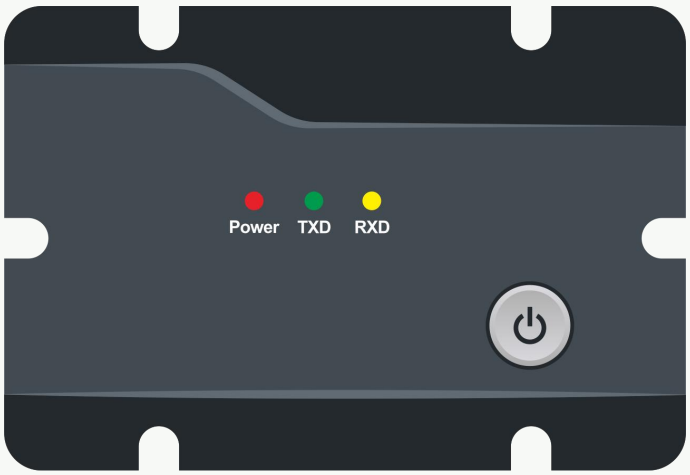
After power on，press 

and 

at same time，Enter of exit parameter setting

step	button	display	Note
		[F 1]	**F1 Manu**
1	Press▲ select Press↵ confirm	[Po 1]	Timed shutdown time, unit minute.
2	Press▲ select	[bg 2]	Time to turn off the backlight, unit minute.
3	Press↵ confirm	[US 0]	0 Disable unit switching. 1 Allow unit switching
		[F 2]	**F2 Manu**
1	Press↵confirm	[HE1.2b]	Board version 1.2b
2	Press↵confirm	[SE1.01]	Software version 1.01
3	Press↵confirm	[V X.XX]	Battery voltage
3	Press↵confirm	[1000]	Display internal code
4	Press↵confirm	[Adr X]	Displays the address value set
		[F 3]	**F3 Manu**
F3 menu to restore the default Settings and wireless module configuration related functions, do not operate lightly, if necessary, please contact your local dealer.			

5.6 Transmitter instruction



Key description

KEY	KEY NAME	KEY FUNCTION
	POWER	Press and hold for one second to turn the transmitter on/off.

Light instruction

Light	Function	Color
Power	Sleep tips, low battery tips	Red
TXD	Sending a signal	Green
RXD	Receiving signal	Yellow

Light status Instruction

Operation/Status	Display	Instruction
Press and hold the On/Off button for 1 second	Red & green lights blink quickly Red & yellow lights blink quickly	Red and green lights blink means power on Red and yellow lights blink means power off
In normal working condition	The green and yellow indicators are blinking at an interval of 1 second	
In sleep mode	The indicator blinks red at a interval of 5 seconds	After the transmitter is turned on, if there is no indicator to wake up, it enters the sleep state.
The battery is low.	The indicator blinks red at a interval of 1 second	When the battery level is below 3.5V, the red light will start blinking.

6、Output Format

Communication format 1~3 are continuous transmit mode;

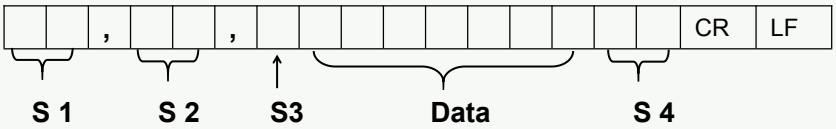
Communication format 4~5 are manual transmit mode, the weighing data can be sent to the computer when printing.

6.1 Communication Format 1

Indicator communication format 1 [CP 1], baud rate 9600 [Baud 4].

ASCII code to show the data. The transmission data is the current weight.

RS232: baud rate 9600Bit/S, 8-digit data, no calibration, 1 digit stop.



S1: weight status, ST= standstill, US= not standstill, OL= overload

S2: weight mode, GS=gross mode, NT=net mode

S3: weight of positive and negative, “+” or “–”

S4: “kg” or “lb”

Data: weight value, including decimal point

CR: carriage return

LF: line feed

6.2 Communication Format 2

Compatible for YAOHUA, format 2 [CP 2], baud rate 600 [Baud 0].

6.3 Communication Format 3

Compatible for Toledo big display, format 3 [CP 3], baud rate 1200 [Baud 1].

6.4 Communication Format 4

The weighing data can be sent to the computer when printing, format 4 [CP 4], baud rate 9600 [Baud 4], data format refers to print format.

6.5 Communication Format 5

The weighing data can be sent to the computer when printing, format 5 [CP 5], baud rate 9600 [Baud 4]. For example, the upload data format of one scale:

WEIGHING REPORT ---------- NO. : 0594 Date: 2013-11-02 Time: 11:10:41 Vehicle: 0000 Operater: 00 LW: 429.0kg ---------- Gross: 429.0kg

6.6 Communication Format 6~8

Data format is the same as **communication format 1-3**. Press the print key to upload the weight manually. Seting [PM 0] to turn off printing function.

7.Print Format

7.1 Ordinary Print Format

Single pad:

```
WEIGHING  REPORT
----------------
NO. : 0001
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1:       1000kg
----------------
Gross:     1000kg
----------------
```

Double pads:

```
WEIGHING  REPORT
----------------
NO. : 0001
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1:       1000kg
RW1:       1000kg
Axle01:    2000kg
----------------
Gross:     2000kg
----------------
```

Three pads:

```
WEIGHING  REPORT
----------------
NO. : 0001
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1:       1000kg
LW2:       1500kg
RW2:       1500kg
Axle02:    3000kg
----------------
Gross:     4000kg
----------------
```

Four pads:

```
WEIGHING  REPORT
----------------
NO. : 0001
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1:       1000kg
RW1:       1000kg
Axle01:    2000kg

LW2:       2000kg
RW2:       2000kg
Axle02:    4000kg
----------------
Gross:     6000kg
----------------
```

Six pads:

```
WEIGHING  REPORT
----------------
NO. : 0001
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1:       1000kg
RW1:       1000kg
Axle01:    2000kg

LW2:       2000kg
RW2:       2000kg
Axle02:    4000kg

LW3:       2000kg
RW3:       2000kg
Axle03:    4000kg
----------------
Gross:    10000kg
----------------
```

7.2 Cumulative Print Format (double-plate)

Double axles:
WEIGHING REPORT

NO. : 0003
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1: 1000kg
RW1: 1000kg
Axle01: 2000kg

LW1: 2000kg
RW1: 2000kg
Axle02: 4000kg

Gross: 6000kg

Four axles:
WEIGHING REPORT

NO. : 0003
Date: 01-20-2025
Time: 13:37:07
Vehicle: 0000
Operator:00

LW1 : 1000kg
RW1 : 1000kg
Axle01: 2000kg

LW2: 1000kg
RW2: 1500kg
Axle02: 2500kg

LW1 : 2000kg
RW1 : 2000kg
Axle03: 4000kg

LW2: 2000kg
RW2: 2000kg
Axle04: 4000kg

Gross: 12500kg
---

8. Maintenance

8.1 Regular Error And Solution

Error	Reason	Solution
UUUUUU	1.Overload 2. Wrong connection with load cell 3. Load cell has quality problem	1. Reduce the weight 2. Check load cell connection 3. Inspection load cell. Check the input and output
nnnnnn	1.The adjust for scale not good 2. Wrong connection 3. Load cell has quality problem	1. Check the scale position 2. Check load cell connection 3. Check input/output resistance to judge it is good or not
ERR01	LW1 transmitter reception timeout	1. Check transmitter is low power or not 2. Antenna is installed or not 3. Distance is too far or not 4. Restart instrument
ERR02	RW1 transmitter reception timeout	
ERR03	LW2 transmitter reception timeout	
ERR04	RW2 transmitter reception timeout	
ERR05	LW3 transmitter reception timeout	
ERR06	RW3 transmitter reception timeout	
ERR10	Zero not on stable condition	Zero on stable condition
ERR11	Zero on tare mode	Zero on gross mode
ERR12	Out of the zero range	Move the extra load
ERR15	Tare no on stable condition	Tare on stable condition
ERR16	Tare when no load	To load some, then tare
ERR17	Out of tare range	Decrease the tare weight
ERR20	Fail in indicator parameter output	The wireless module is damaged
ERR21	Fail in indicator parameter input	The wireless module is damaged
ERR22	Fail in transmitter parameter output	1. Check IP address 2. Module damaged or baud rate wrong
ERR23	Fail in transmitter configure	Please consult the distributor
ERR25	The S/N number is wrong when checking the weighing record	Assure the S/N number within the number of records
ERR30	Printing format is wrong at accumulative weighing mode	Printing format setting “2” [PM = 2]

ERR31	Working mode is wrong at accumulative weighing mode	Working mode setting “2/4/6” [SEL = 2/4/6]
ERR32	Weighing over the span or display range or unstable or failure of zero at accumulative weighing mode	In case of returning to zero, the weight of the Board shall be loaded for at least 20d, and the printing shall be accumulated after stabilization
ERR33	Display Error, Printing with the instrument at accumulative weighing mode.	Print the total weight after accumulating the weight of axles.
ERR34	Printing error at normal Weighing mode.	When the weight does not exceed the display range and range, the single board shall be loaded for at least 20d and printed after stabilization.
ERR35	Printing format wrong at normal weighing mode.	Set the printing format to normal printing, [PM = 1]
ERR36	In automatic weighing mode, normal printing format, pressing “Store” will not prompt	Set the printing format to cumulative printing, [PM = 2]
ERR40	In non-automastic weighing mode, set the number of axles	Set the weighing mode to automatic weighing, [PF = 1]
ERR41	In non-cumulative print format, the number of axles more than 1.	Set the printing format to cumulative printing, [PM = 2]
ERR42	The number of axles set is not an integral multiple of the number of weighing axles.	Set the number of axles as an integral multiple of the number of weighing axles, [ALE = x], X is the integral multiple of the number of weighing axles

8.2 Security Guide

In order to guarantee the life and precision of the product, please pay attention to the daily maintenance:

- Do not overload.
- Do not place things on the scale for a long time.
- Protect the indicator from strong sunlight to prolong the using life.
- Power off the indicator firstly before plug and unplug .
- Check and charge the battery power regularly.
- Please take out the battery when it is not in use for a long time
- Do not use the product in the thunder and rain environment.
- Do not repair yourself. In case of any breakdown, contact the local distributor.

Packing List

S/N	Item	Specification	Unit	Qty	Packing
1	Indicator	LP7561RF	PCS	1	
2	ABS suitcase		PCS	1	
3	Packing bag		PCS	1	
4	Accessories bag		PCS	1	
5	Indicator power adapter	Input AC 220V Output DC 9V	PCS	1	
6	User manual	Series	PCS	1	
7	Plate with transmitter	LP7660W/V	PCS	1/2/3/4/6	
8	Transmitter power charger	Input AC 220V Output DC 4.2V	PCS	1/2/3/4/6	
9	Communication interface	M16-3B	PCS	1	
10	Antenna	2.4GHz	PCS	1	
11	Certificate		PCS	1	

Please check all the parts carefully according to the packing list attached in the specification while opening the indicator box. If there is a lack of parts or damage, please contact our after-sales service department to get timely processing.

Manual number：
7660CG202260603