

# ANYLOAD<sup>®</sup>

## OCSD

Wireless Dynamometer with  
P180, P380 or P580 Wireless Display  
Operations Manual (V1701)



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## 1. Introduction and Product Features

Thank you for choosing Anyload OCSD Wireless Dynamometer with P180/P380/P580 Wireless Display. The OCSD Wireless Dynamometer is a well-built industry use instrument for different applications, and is microprocessor controlled for precision accuracy. Parameter settings and calibration are easy to operate through the wireless indicator or by the keys on the Dynamometer.

### Key Features include:

- Rugged construction, aluminum and alloy steel capacities are powder coated.
- Accuracy: 0.05% for 1-50t, 0.1% for above 50t capacity.
- Dual direction wireless communication
- All functions and units are clearly display on the LCD (with backlighting)
- Digits are 1 inch high for easy distant viewing.
- Two user programmable Set-Point can be used for safety and warning applications.
- The dynamometer is powered by 3 standard AA size alkaline batteries.
- All commonly used internationally recognized units are available: Kilograms (kg), Short Tons (t), Pounds (lb), Newton (N) and kilo-Newton (kN).
- Operation through wireless handheld indicator, easier to calibrate (with password)
- 4 local mechanical keys: "ON/OFF", "ZERO", "PEAK" and "Unit Change".
- Low battery warning.
- RF wireless handheld indicator is powered by 4 standard AA size alkaline batteries

This manual provides installation, operation and configuration information of OCSD wireless dynamometer with wireless display. It is recommended to go through the manual in details before installing, operating or configuring the scale

## **2. Safe Operation Guides**

1. Do not make lifts beyond rated load capacity of the dynamometer and the shackle(s).
2. Do not perform overhead weighing. Stay clear when Dynamometer is in operation.
3. Do not perform weighing under strong wind as it may cause incorrect readings.
4. Do not perform weighing in an environment with rapid temperature changes as it may cause incorrect readings.
5. Do not attempt to open the Dynamometer, there are no serviceable parts inside.
6. Do not remove wire rope stopper from hook. For safety reasons, always apply.
7. Remove all loads from shackle or hook when not in use.
8. Before weighing, check that all hanging, load- receiving elements and devices are in good condition.
9. Check hook, shackle, safety pins, and latches periodically. Contact your dealer for replacement parts in case of defect, deformities or wearing.
10. Always lift loads vertically.

### 3. Technical Data and Specifications

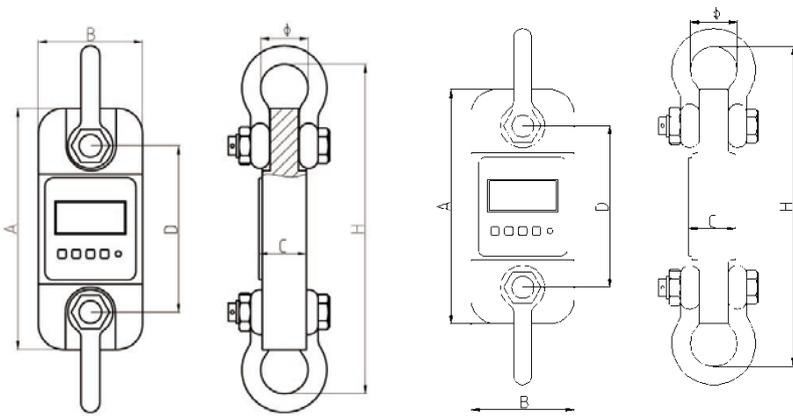
#### 3.1 Main Technical Data

Display	25mm (1") 5 digits LCD with backlight
Power on zero range	20% F.S.
Manual Zero Range	4% F.S.
Tare Range	100% F.S.
Stable Time	≤5 seconds
Overload Indication	100% F.S. + 9e
Max. Safety Load	125% F.S.
Ultimate Load	400% F.S.
Dynamometer battery	AA size alkaline batteries. 1.5Vx3
Indicator battery	AA size alkaline batteries. 1.5Vx4
Operating Temp.	- 10°C ~ + 40°C
Operating Humidity	≤85% RH under 20°C
Wireless Distance	Up to 80m
Wireless Frequency	2.4GHz (default), 433MHz,860MHz (optional)

#### 3.2 Technical Specifications

Model	Capacity(kg)	Min. Weigh(kg)	Division(kg)	Total counts (n)
<b>OCSD-1t</b>	1000	10	0.5	2000
<b>OCSD-2t</b>	2000	20	1	2000
<b>OCSD-3t</b>	3000	20	1	3000
<b>OCSD-5t</b>	5000	40	2	2500
<b>OCSD-10t</b>	10000	100	5	2000
<b>OCSD-20t</b>	20000	200	10	2000
<b>OCSD-30t</b>	30000	200	10	3000
<b>OCSD-50t</b>	50000	400	20	2500
<b>OCSD-100t</b>	100000	1000	50	2000
<b>OCSD-200t</b>	200000	2000	100	2000

**3.3 Appearance Illustration**



**Cap: 1-5t**

**Cap: 10-200t**

**DIMENSIONS (Dimensions shown are nominal and subject to tolerances)**

MODEL	CAP	A(mm)	B(mm)	C(mm)	D(mm)	φ(mm)	H(mm)	Material
OCSD-1t	1t	245	112	37	190	43	335	Aluminum
OCSD-2t	2t	260	123	37	195	51	365	Aluminum
OCSD-3t	3t	260	123	37	195	51	365	Aluminum
OCSD-5t	5t	285	123	57	210	58	405	Aluminum
OCSD-10t	10t	320	120	57	230	92	535	Alloy Steel
OCSD-20t	20t	375	128	74	260	127	660	Alloy Steel
OCSD-30t	30t	420	138	82	280	146	740	Alloy Steel
OCSD-50t	50t	465	150	104	305	184	930	Alloy Steel
OCSD-100t	100t	570	190	132	366	229	1230	Alloy Steel
OCSD-200t	200t	720	265	183	440	280	1362	Alloy Steel

**WEIGHTS:**

<b>Model</b>	<b>OCSD-1t</b>	<b>OCSD-2t</b>	<b>OCSD-3t</b>	<b>OCSD-5t</b>	<b>OCSD-10t</b>
<b>Unit Weight (kg)</b>	1.6	2.1	2.1	2.7	10.4
<b>Weight with shackles (kg)</b>	3.1	4.6	4.6	6.3	24.8
<b>Model</b>	<b>OCSD-20t</b>	<b>OCSD-30t</b>	<b>OCSD-50t</b>	<b>OCSD-100t</b>	<b>OCSD-200t</b>
<b>Unit Weight (kg)</b>	17.8	25	39	81	210
<b>Weight with shackles (kg)</b>	48.6	73	128	321	776

### 3.4 Power Supply

- Dynamometer battery: AA size alkaline batteries. 1.5VX3
- Indicator battery: AA size alkaline batteries. 1.5VX4
- Current: the dynamometer average current is about DC 35mA, 3pcs new batteries can be used for about 40hours under continuous working.
- Wireless indicator average current is about DC 28mA, 4pcs new batteries can be used for about 80hours under continuous working.
- Low battery warning: When the digits are flashing, it means the battery needs to be replaced. The Dynamometer or wireless indicator will power off automatically after one hour without operation.

## 4. Display and Keys

### 4.1 LCD Display

- a. 25mm (1") 5 digits LCD with all functions and units.
- b.  : Wireless signal: when it appears it means signal is stable; disappear when no signal; flashing when signal is weak.
- c. : Battery Voltage, : Full, : Low, : Empty
- d. **PEAK** : Current value is Peak Hold value (maximum value).
- e. **MEM** : Appears once when Parameter or Calibration value is stored. Long time appearance means current value is Accumulation data.
- f. **STB**: Stable Status.
- g. **KN**: "kilo-Newton", **N** : "Newton". Tare status "N" will flash.
- h. **t** : "Ton"
- i. **lb** : "Pound"
- j. **kg** : "Kilogram "

### 4.2 Keys

#### a. **ON/OFF key**

- I. Press "**ON/OFF**" Key for 1 second, the Dynamometer will turn on.
- II. In ON status, Press "**ON/OFF**" Key for 1 second, the Dynamometer will turn off.

#### b. **ZERO key**

When Dynamometer is switched on with no load, but there are small digits on the screen, press this key to obtain the zero reading.

#### c. **UNIT key**

Press **UNIT** key, the unit on LCD will display in loop as follows:  
"kg" → "lb" → "N" → "kN" → "t" → "kg".

**d. PEAK key**

When load is changing, press this key and it will catch and display the maximum reading of the load.

Press this key again, reading will return to normal.

**5. Dynamometer Functions Guides**

**Note:** ( ) means the key on the dynamometer

【 】 means the key on the indicator

〔 〕 means the display content

**5.1 On/Off**

➤ **Turn ON dynamometer**

OPERATION	DISPLAY	ILLUSTRATION
(ON/OFF)	〔 88888 〕	Display twice, self test
	〔 Ert 〕	Display twice
	〔 u=3.72 〕	Display current software version
	〔 CH=E3 〕	Display current wireless channel E3
	〔 5000 〕	Display capacity, e.g. 5t
	〔 U=3.98 〕	Display current battery voltage is 3.98
	〔 ——— 〕	Waiting stable
	〔 0 〕	Displays current load, generally is 0

➤ **Turn OFF dynamometer**

1	Manual Power OFF	Press (ON/OFF) Key for 1 second
2	Remote Power OFF	Press 【MENU】 or 【MODE】 Key to select “OFF”, press 【ENTER】 Key
3	Auto Power OFF	Choose turn off method in parameter setting, the dynamometer will display 〔 - 〕 if having no operation after 15 minutes to save power, and it will turn off automatically after 60minutes.

## 5.2 Zero

	OPERATION	DISPLAY	When Dynamometer turns on, generally it displays [ 0 ]. In case no weight on the Dynamometer but display other than '0", press this button to reset it.
1	Press ( ZERO )	[ 0 ]	
2	Press <b>【ZERO】</b>		

## 5.3 Tare

OPERATION	DISPLAY	After turned on the Dynamometer, hang the tare weight, such as sling cable, then press this key, "TARE" light will turn on. The scale will display net weight of the goods
Press <b>【TARE】</b>	[ 0 ]	

## 5.4 Peak Hold

OPERATION	ILLUSTRATION
Press (PEAK)	Catch and display Maximum value of changing load
Press (PEAK)	reading return to normal

## 5.5 Accumulation

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> or <b>【MODE】</b> key 5 times	[ ACCU ]	
Press <b>【ENTER】</b>	[ No*** ]	Current accumulation time
	[ H**** ]	Front four digits of total value
	[ L**** ]	Rear four digits of total value

### 5.5.1 Accumulation Search

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> key 6 times	〔SACCU〕	
Press <b>【ENTER】</b>	〔No***〕	Current accumulation time
	〔*****〕	Current weight reading
	〔H****〕	Front four digits of total value
	〔L****〕	Rear four digits of total value
Press <b>【MENU】</b> key again		Return

Pressing **【TARE】** and **【ZERO】** can check different times, weight and accumulation.

### 5.5.2 Accumulation Clear

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> key 7 times	〔CLEAR〕	
Press <b>【ENTER】</b>	〔CLr 1〕	Ask if you want to clear or not
	〔noCLr〕	Press <b>【MENU】</b> key Cancel clear
	〔88888〕	Press <b>【ENTER】</b> key Confirm clear

### 5.6 Battery Voltage

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> key 3 times, Display “dC”, press <b>【ENTER】</b> key.	〔U *.*〕	Displays current battery voltage
Press <b>【MENU】</b> key again		Return

Note : Battery voltage normally between 〔U 3.50〕 to 〔U 4.70〕 , if below 〔U 3.10〕 , the display will flash, Battery should be replaced.

### 5.7 Unit

	OPERATION	DISPLAY	ILLUSTRATION
1	Press <b>【MENU】</b> key 4 times	〔UnIt〕	
	Press <b>【ENTER】</b> key	〔Un=0〕	Un=0, the unit is kg, press <b>【ZERO】</b> or <b>【DATE】</b> to select unit from 0-4, 1 means lb, 2 means N, 3 means KN, 4 means ton.
	Press <b>【MENU】</b> key	〔 0〕	Confirm unit chosen and return
2	Press (UNIT)	〔Un =0〕	The dynamometer will display kg, lb, N, kN, ton in loop.

### 5.8 Return

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> key 9 times	〔 ESC〕	
Press <b>【ENTER】</b> key	〔 0〕	Return to normal testing status

**For P580, press the Esc button in the keypad to return to normal testing status**

## 5.9 Set Point

There are two user programmable Set-Point can be used for safety and warning applications or for limit weighing:

\_ 1 LO SP1 1 HI 2 LO SP2 2 HI

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> key twice	〔SETUP〕	Confirm, enter into parameter setting program
Press <b>【ENTER】</b>	〔SP1 〕	Set point 1
Press <b>【ENTER】</b> to confirm	〔1 OFF〕	New dynamometer, it displays 1 OFF, if parameter set, it display set value.
Press <b>【ZERO】</b> to choose	〔1 HI〕 or 〔1 LO〕	There are 3 choices, 1 OFF means you do not set point, 1 HI means the indicator will alarm when load exceeds the value you set, 1 LO means the indicator will alarm when load is smaller than the value
Press <b>【ENTER】</b> to confirm	〔02000〕	The screen will display 02000, if parameter is changed, the screen display set value.
Press <b>【ZERO】</b> and <b>【TARE】</b> to change value	〔01000〕	Set “1 HI” or “1LO” Value. e.g. 1000kg
Press <b>【ENTER】</b> to confirm	〔 SP2〕	Set point 2
Press <b>【ENTER】</b> to confirm	〔2 OFF〕	The screen will display 2 OFF, if parameter changed, it will display set value.
Press <b>【ZERO】</b> to choose	〔2 HI〕 or 〔2 LO〕	There are 3 choices, 2 OFF means you do not set point, 2

		HI means the indicator will alarm when load exceeds the value you set, 2 LO means the indicator will alarm when load is smaller than the value
Press <b>【ENTER】</b> to confirm	〔01200〕	The screen will display 01200, if parameter is changed, the screen display set value.
Press <b>【ZERO】</b> and <b>【TARE】</b> to change value	〔03000〕	Set “2 LO” or “2 HI” Value. e.g.3000kg

If you do not need to set point, you only need to press **【ENTER】** until it displays next function

## 6. Wireless Indicator Operation Guides

### 6.1 P180 Wireless Indicator

#### 6.1.1 P180 Features and Functions

- Palm Size: small size enclosure which is easy for carrying around
- Wireless two way communication: can do tare, zero scale, calibration and parameter setting
- Display: five 12mm high LCD digits with backlight which can show the status of battery power, tare, zero, peak and stable
- USB Port: equipped with USB port for easy connection and communication with PC
- Power Supply: power supply through USB connection or Lithium battery (included)
- Operating Temperature: -20°C to 60°C
- Antenna: concealed antenna as an integral part of the receiver •
- Updating Rate: 12 times per second from load cell
- Radio Frequency: 2.4GHz wireless transmission of up to 70m distance and 128 available channels.

#### 6.1.2 Turn On the P180

OPERATION	DISPLAY	ILLUSTRATION
<b>【ON/OFF】</b>	〔 88888 〕	Display twice, self test
	〔 Ert 〕	Display twice
	〔 u 1.2 〕	Display current software version
	〔 CH=E3 〕	Display current wireless channel E3
	〔 U=3.98 〕	Display current battery voltage is 3.98
	〔 ——— 〕	Waiting stable
	〔 0 〕 or 〔 noSIG 〕	If display 0, means the indicator can communicate with the dynamometer, if display noSIG, means no signal from dynamometer

### 6.1.3 P180 Indicator Keys

#### 1. **【ZERO】**

- a. In testing status, if there are small digits on screen, press this key to obtain the zero reading.
- b. In Parameter Setting status, it Used as scrolling up.

#### 2. **【TARE】**

- a. If there is tare weight on the dynamometer, when the reading stable, press this key, it display “0”, and “N” indicator Flash.
- b. Put the goods into container, the dynamometer will display goods net weight.
- c. If move goods and container, the dynamometer will display minus value of tare weight.
- d. In Parameter Setting status, it Used as digits movement.

#### 3. **【ENTER】**

Used as function select, normally combined with **【MENU】** Key.

#### 4. **【MENU】**

Used as function select, or can be combined with other Keys.

- ◆Press **【MENU】** key once, it display “OFF”, Press **【ENTER】** Key, it will remote control dynamometer to power off.
- ◆Press **【MENU】** key twice, it displays “SETUP”, Press **【ENTER】** Key access Parameter Setting Program. After Setting is finished, press **【MENU】** key again to storage data and back to test MENU.
- ◆Press **【MENU】** key 3 times, it display “dC”, Press **【ENTER】** Key to display dynamometer battery voltage, press **【MENU】** key again back to test MENU.

- ◆ Press **【MENU】** key 4 times, it display “UnIt”, Press **【ENTER】** Key access unit selection. Press **【ZERO】** key to select unit, press **【MENU】** key again back to test MENU.
- ◆ Press **【MENU】** key 5 times, it display “ACCU”, Press **【ENTER】** Key access Accumulation Status, press **【MENU】** key again back to test MENU. (*refer to Section 5.5 for details of Accumulation function*)
- ◆ Press **【MENU】** key 6 times, it display “SACCU”, Press **【ENTER】** Key access Accumulation Search Status, press **【MENU】** key again back to test MENU.
- ◆ Press **【MENU】** key 7 times, it display “cLEAR”, Press **【ENTER】** Key access Accumulation clear Status, displays “CLr”, Press **【ENTER】** Key again, it displays “noCLr”. Press **【MENU】** key again back to test MENU.
- ◆ Press **【MENU】** key 8 times, it displays “CLIBr”, Press **【ENTER】** Key enter into calibration program, after calibration is finished, press **【MENU】** key back to test MENU. Details on calibration refer to Section 7.
- ◆ Press **【MENU】** key 9 times, it display “ESC”, Press **【ENTER】** Key to return

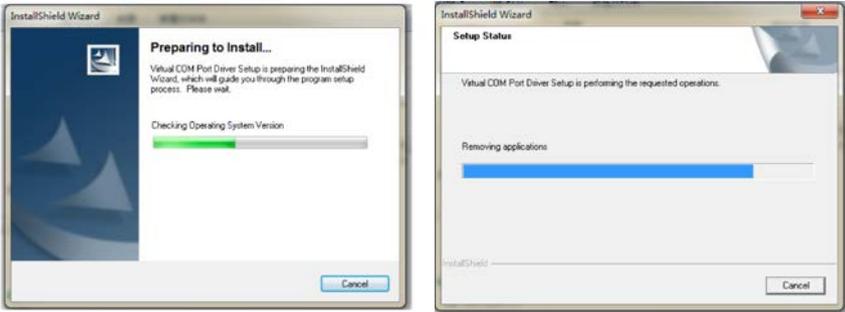
#### **6.1.4 P180 Software Installation**

P180 wireless indicator USB kit not only can real-time wirelessly receive Dynamometer’s data input to PC by USB port, it can also operate the Dynamometer, such as zero, tare, parameter setting and calibration. P180 wireless indicator can be powered by either the rechargeable battery or through the USB cable (DC 5V). It can communicate with a PC through the USB cable by a virtual serial port

##### **I. Install Drive Software**

When the P180 connected to PC for the first time, PC will request driver software, please run the driver software which provided in attached CD

Insert CD, then run “VCP\_1.3.1\_Setup”,



After running “VCP\_1.3.1\_Setup”, plug in the USB cable which connected with P180 to PC. PC will auto find it. You can open device manager to check virtual com port communication is successful or not. If the device manager had below pictorial prompts it means it is successful.



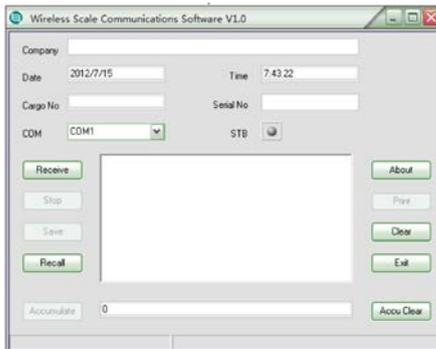
**Note:** the port number is randomly picked. If the port number picked is greater than 4, you need to change it , normally it can changed to “COM3”.

## II. Run Weighing Software

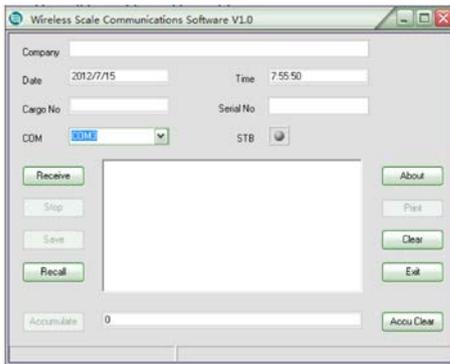
After drive software installation, you can run PC software



in CD ROM, and the PC displays as follows:



Select COM port number same as device manager showed, generally we choose COM3, the PC display as follows:



Then Click “Receive” button



Sometimes, the PC will prompt you to check port COM3, if you are sure the port COM3 is selected just ignore it and click “Receive” button again

When “STB” is changed to red color, it means dynamometer load is stable, meanwhile, you can click “SAVE” button to save weighing value as “\*.ini” file, you can select file path and file name to save. When you want to check those file which you saved, just click “RECALL” button.

## 6.2 P380 Wireless Indicator

### 6.2.1 P380 Features and Functions

- Hand Held Size: the enclosure is designed for comfortable handheld operation
- Wireless two way communication: can do tare, zero scale, calibration and parameter setting
- Display: five 25mm high LCD digits with backlight which can show the status of battery power, tare, zero, peak and stable
- Battery: four AA size alkaline batteries can allow 50 hours continuous operation
- Set Points: Two user programmable Set-Points can be used for safety and warning applications, or for weighing limit
- Communication: RS232 communication port is available for easy extract of data or printing operation, continuous output can drive a scoreboard
- Operating Temperature: -20°C to 60°C
- Antenna: concealed antenna as an integral part of the receiver
- Updating Rate: 12 times per second from load cell
- Radio Frequency: 2.4GHz wireless transmission of up to 70m distance and 128 available channels.

### 6.1.2 Turn On the P380

OPERATION	DISPLAY	ILLUSTRATION
<b>【ON/OFF】</b>	〔 88888 〕	Display twice, self test
	〔 Ert 〕	Display twice
	〔 u 1.2 〕	Display current software version
	〔 CH=E3 〕	Display current wireless channel E3
	〔 U=3.98 〕	Display current battery voltage is 3.98
	〔 ——— 〕	Waiting stable

	<p>[ 0 ] or [ noSIG ]</p>	<p>If display 0, means the indicator can communicate with the dynamometer, if display noSIG, means no signal from dynamometer</p>
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### 6.1.2 P380 Indicator Keys

1. **【ON/OFF】**

- I. Press “**ON/OFF**” Key for 1 Second, the indicator will turn on.
- II. In ON status, Press “**ON/OFF**” Key for 1 Second, the indicator turns off.

2. **【ZERO】**

- I. In testing status, there are small digits on screen, press this key to obtain the zero reading.
- II. In Parameter Setting status, it is used as a scrolling up digit.

3. **【TARE】**

- I. When there is tare weight such as a container, after the reading is stable, press this key, it will display “0”, and “N” indicator will flash.
- II. Put the object(s) into the container, the dynamometer will display the net weight.
- III. If the object(s) and container are moved, the dynamometer will display a minus value.
- IV. During Parameter Setting, it can also be used as a directional key.

4. **【MODE】**

- Used as function shift, or can be combined with other key.
- Press **【MODE】** key once, it will display “OFF”, press **【ENTER】** Key, it will wirelessly turn off dynamometer,

and indicator will display “noSIG”, means no signal.

- Press **【MODE】** key twice, it will display “SETUP”, Press **【ENTER】** Key access Parameter Settings. After parameter settings is finished, press **【MODE】** key to confirm setting to return to test mode.
- Press **【MODE】** key 3 times, display will read “dC”, Press **【ENTER】** Key to read current battery voltage, press **【MODE】** key again to return to test mode.
- Press **【MODE】** key 4 times, it display “Unit”, Press **【ENTER】** Key to access unit selection. Press **【ZERO】** key to select unit, press **【MODE】** key again to return to test mode.
- Press **【MODE】** key 5 times, display will read “ACCU”, Press **【ENTER】** Key to access Accumulation status, press **【MODE】** key to return to test mode (*refer to Section 5.5 for details of Accumulation function*).
- Press **【MODE】** key 6 times, display will read “SACCU”, Press **【ENTER】** Key to access Accumulation Search status, press **【MODE】** key to return to test mode.
- Press **【MODE】** key 7 times, display will read “CLEAR”, Press **【ENTER】** Key to access Accumulation clear status, display will read “CLr 1”, Press **【TARE】** Key, display will read “noCLr”. Press **【MODE】** key key to return to test mode.
- Press **【MODE】** key 8 times, display will read “CLibr”, Press **【ENTER】** Key to enter into calibration program, after calibration is finished, press **【MENU】** key to return to test MENU. Details on calibration refer to Section 7.
- Press **【MODE】** key 9 times, display will read “ESC”, Press **【ENTER】** Key to return to test mode.

**5. 【ENTER】**

Used as function selection, normally combined with **【MODE】**  
Key

**6. 【PEAK】**

When load is changing, press this key to catch and display the maximum reading of the load.

Press this key again, reading will return to normal.

**6.3 P580 Wireless Indicator****6.3.1 P580 Features and Functions**

- Portable Size with Printer: the receiver is equipped with a printer and is designed for easy carrying in a leather bag provided
- Wireless two way communication: can do tare, zero scale, calibration and parameter setting
- Display: five 25mm high LCD digits with backlight which can show the status of battery power, tare, zero, peak and stable
- Keyboard function: can print data, time, serial number, commodity number, net weight and total weight, can take up to 16 digits heading information, and store up to 2,000 weigh records
- Battery: equipped with a high performance, SC type industrial Ni-H battery which can be recharged for 1,000 cycles, a fully recharged battery can provide 50 hours normal operation
- Printer: Fujitsu FTP-680 2" high speed thermal printer
- CPU: ARM based 32 bit MCU combines with high performance, real time capability, low power and low voltage operation
- Communication: both RS232 serial port and USB port are provided for flexible connection with laptops
- Operating Temperature: -20°C to 60°C
- Antenna: concealed antenna as an integral part of the receiver
- Updating Rate: 12 times per second from load cell

- Radio Frequency: 2.4GHz wireless transmission of up to 70m distance and 128 available channels.

### 6.3.2 Turn ON the P580

OPERATION	DISPLAY	ILLUSTRATION
Press <b>ON</b>	[[ 88888 ]]	Display twice, self test
	[[ Ert ]]	Display twice
	[[ u 1.2 ]]	Display current software version
	[[ CH=E3 ]]	Display current wireless channel E3
	[[ U=3.98 ]]	Display current battery voltage is 3.98
	[[ ——— ]]	Waiting stable
	[[ 0 ]] or [[ noSIG ]]	If display 0, means the indicator can communicate with the dynamometer, if display noSIG, means no signal from dynamometer

**Note :** Indicator battery voltage is normally between [[ U 6.80 ]] to [[ U 8.20 ]], if it is below [[ U 6.80 ]], the display will flash. Battery should be recharged.

### 6.3.3 Turn OFF the P580

Manual Power OFF	Press <b>OFF</b> key for 1 Second
Auto Power OFF	The indicator will turn off automatically after 3 minutes if not in operation

### 6.3.4 Turn OFF Dynamometer

Manual Power OFF	Press (ON/OFF) key for 1 Second
Remote Power OFF	Press <b>MENU</b> key to select "OFF", press <b>ENTER</b> Key

Auto Power OFF	Choose turn off method in parameter setting, the dynamometer will display [ - ] after no operation at 15minutes to save power, and it will turn off automatically after 60minutes.
Manual Power OFF	Press (ON/OFF) key for 1 Second

### 6.3.5 P580 Indicator Keys

-  : Turn on
-  : Turn off
-  : Cargo number, from 00 to 99, Set CN, to distinguish different goods
-  : Serial number, from 00000 to 99999, to distinguish different time weighing
-  : LCD Backlight
-  : Set time
-  : Set date and set digit up
-  : Repeat print current weighing data
-  : Save in memory and print current weighing data
-  : Peak function and move digit left
-  : Tare function and move digit right
-  : Set print MENU
-  : Clear memory
-  : Zero function and move digit down
-  : Statistics function
-  : Return to previous menu
-  : Select menu

■  : Confirm

### 6.3.5.1 Zero

OPERATION	DISPLAY	When Dynamometer is turned on, generally it displays [ 0 ], if display reads small digits when there is no load, press this key
Press ( ZERO )	[ 0 ]	
Press 		

### 6.3.5.2 Tare

OPERATION	DISPLAY	After turning on hanging tare weight such as sling, cable at first, press this key, "TARE" light on, then the scale will display net weight of the goods
Press 	[ 0 ]	

### 6.3.5.3 Peak Hold

OPERATION	ILLUSTRATION	
Press (PEAK) or 	Catch and display maximum value of changing load	
Press (PEAK) or 	Reading return to normal	

### 6.3.5.4 Set Time

OPERATION	DISPLAY	ILLUSTRATION
Press 	[ hh ]	Displays current clock
Press 	[ mm-ss ]	Displays current minute and second
Press 	[ mm-ss ]	Press  until digit m flashes, Press  ,  ,  ,  to set current time, Press  to set current clock
Press 	[ 0 ]	Save set time and return

### 6.3.5.5 Set Date

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[ YYYY ]]	Displays current year
Press 	[[ mm-dd ]]	Displays current month and date
Press 	[[ mm-dd ]]	Press  until digit m flashes, Press  ,  ,  ,  to set current date, Press  to set current year
Press 	[[ 0 ]]	Save set date and return

### 6.3.5.6 Set CN ( Cargo Number )

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[ 00 ]]	Displays current cargo number, press  ,  ,  ,  to set new cargo number,
Press 	[[ 0 ]]	Save and return

*Attn: After setting new CN, it means that the goods weigh later are classified to this CN*

### 6.3.5.7 Set SN ( Serial Number )

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[ 00 ]]	Displays current serial number, press  ,  ,  ,  to set new serial number,
Press 	[[ 0 ]]	Save and return

*Attn: After setting new SN, it means that the goods weigh later are classified to this SN.  
CN, SN mainly used for distinguishing different goods*

### 6.3.5.8 Unit

OPERATION	DISPLAY	ILLUSTRATION
Press  4 times	[ [ Unit ] ]	
Press 	[ [ Un=0 ] ]	Un=0, the unit is kg, press  to select unit from 0-4, 1 means lb, 2 means N, 3 means KN, 4 means ton.
Press 	[ [ 0 ] ]	Confirm unit chosen and return
Press (UNIT)	[ [ Un =0 ] ]	The dynamometer will display kg, lb, N, kN, ton circlely

### 6.3.5.9 Battery Voltage

OPERATION	DISPLAY	ILLUSTRATION
Press  3 times,	[ [ dC ] ]	
press 	[ [ U * . ** ] ]	Display current dynamometer battery voltage
Press 	[ [ 0 ] ]	Return

**Note :** Dynamometer battery voltage is normally between [ [ U 3.50 ] ] to [ [ U 4.70 ] ] , if below [ [ U 3.10 ] ] , the display will flash. Battery should be replaced

6.3.5.10 Set Print Method

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[AutoP]] or [[HAndP]]	Displays current print method, AutoP means auto print, once weighing over 20e and stable, indicator will auto print the weighing date. HAndP means manual print, you have to press  key to print data when weighing is stable, press  to shift from these two items
Press 	[[nSPrt]] or [[nHPrt]] or [[noPrt]]	nSPrt means simple print, only print no, weighing date, nHPrt means with head print, print date, time, CN,SN. noPrt means do not print, press  to shift from these three items
Press 	[[ CHn]] or [[ Eng]]	CHn means print in Chinese, Eng means print in English, press  to shift from these two items
Press 	[[ Hd.OFF]] or [[ Hd.On]]	Hd.OFF means print without head, Hd.On means print with head, press  to shift from these two items
Press 	[[ 1.XXXX]]	Input head, XXXX is character code, 1 means first character, press  for second, third character, total of nine characters, for character code list please see technical manual
Press 	[[ 0]]	Save all your settings and return

Attn: The default **setting** is HandP, nHPrt, Eng, Hd.OFF

### 6.3.5.11 Set Point

For setting the Set Point refer to section 5.9.

## 6.3.6 Weighing Data Processing

In normal weighing status, every time weighing data will be saved in memory, and number it as No:0001, No:0002 etc, 580 indicator can save up to 2000 weighing data

### 6.3.6.1 Input CN & SN Number

CN and SN are mainly used to classify different goods. Before weighing, you can input it as Chapter 3-7, 3-8. CN, SN can be used at the same time. After setting, the weighing data will be classified to these CN, SN. The default is CN:00, SN:00000

### 6.3.6.2 Statics and Print

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[ COUnt ]]	Press  to print total data record, but after it is turned off, it cannot print again.
Press 	[[ P0001 ]]	Press  to print No:0001 data, you can press  to choose different no and print.
Press 	[[ LFPrt ]]	Press  to forward paper without print
Press 	[[ 0 ]]	Return to weighing status

### 6.3.6.3 Print Per Date

OPERATION	DISPLAY	ILLUSTRATION
Press 	[ YYYY ]	Displays current year
Press 	[ mm-dd ]	Displays current date
Press 	[ mm-dd ]	Press  until digit m flashes, press  ,  ,  ,  to set date which you want to print data.
Press 	[ 0 ]	The indicator will print all time weighing data which operated in the date you chose, total weight and total times. Then return to weighing status

### 6.3.6.4 Print per CN

OPERATION	DISPLAY	ILLUSTRATION
Press 	[ XX ]	It means current CN is XX, press  ,  ,  ,  to set CN in which you want to print data.
Press 	[ 0 ]	The indicator will print all time weighing data classified in the CN set, total weight and total times. Return to weighing status.

### 6.3.6.5 Print per SN

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[XXXXX]]	It means current CN is XXXXX, press  ,  ,  ,  to set date in which you want to print data.
Press 	[[ 0]]	The indicator will print all time weighing data classified in SN set, total weight and total times. Indicator will return to weighing status.

### 6.3.6.6 Clear

OPERATION	DISPLAY	ILLUSTRATION
Press 	[[CLrP1]]	Press  will clear current weighing data and return to weighing status
Press 	[[CLrP2]]	Press  will clear total weighing data saved and return to weighing status
Press 	[[ 0]]	The indicator will print all time weighing data which operated in the date you chose, total weight, and total times. Then return to weighing status.

### 6.3.7 Parameters Settings and Calibration

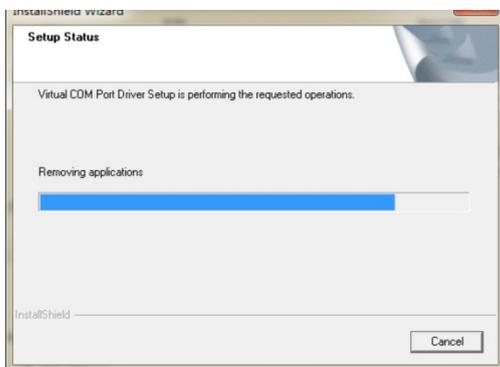
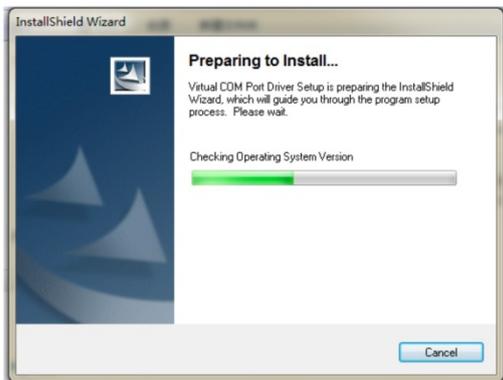
Details on Parameters Settings and Calibration refer to Section 7.

### 6.3.8 Communication with PC

580 wireless indicator has a USB port which can input weighing data into PC

#### 6.3.8.1 Software Installation

When 580 USB kit is connected to the PC for first time, PC will request drive software, please run drive software. The drive software is attached to CD ROM. Insert CD ROM, running “VCP\_1.3.1\_Setup”.



After “VCP\_1.3.1\_Setup” is running, plug in USB kit to PC. The PC will automatically find it. Open device manager to check if virtual com port communication was successful or not. If the device manager has below pictorial prompts it means it was successful



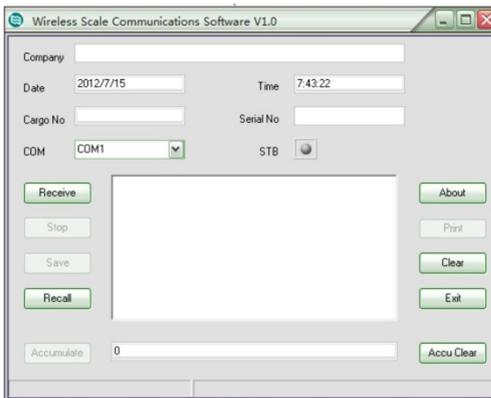
**Note:** The port number is random, if the port number is more than 4, you need to change it, normally it can be changed to “COM3”.

### 6.3.8.2 Run the Weighing Software

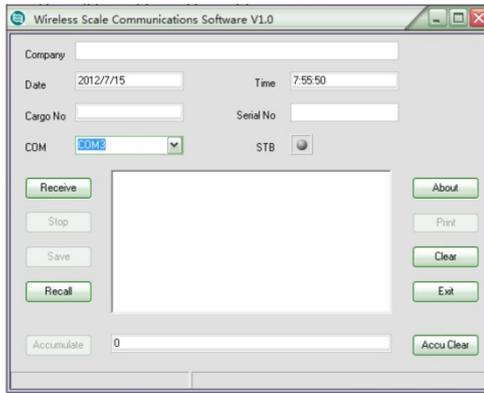
After installing drive software, you can run PC software



in CD ROM, and the PC displays as follows:



Select COM port number same as device manager showed, generally choose COM3, the PC displays as follows:



Then Click “Receive” button



Occasionally, the PC will mention to check port COM3, if you are sure you selected port COM3, just ignore it and click “Receive” button again.

When “STB” is changed to red color, it means dynamometer load is stable, meanwhile, you can click “SAVE” button to save weighing value as “\*.ini” file, you can select file path and file name to save. When you want to check those files which you saved, just click “RECALL” button.

## 7. Parameters Settings and Calibration

Parameters settings and calibration will be operated through wireless indicator

### 7.1 Key Functions

KEY			FUNCTION
P180	P380	P580	
【TARE】			Move digit
【ZERO】		【DATE】	Set value up
【MENU】	【MODE】	【MENU】	Storage and exit
【ENTER】			Confirm

### 7.2 Parameters Settings

OPERATION	DISPLAY	ILLUSTRATION
Press 【MENU】 or 【MODE】 key twice	〔SETUP〕	Confirm, enter into parameter setting program
Press 【ENTER】	〔FS=06〕	The screen will display FS=06. If dynamometer was calibrated it displays the capacity.
Press 【ZERO】 or 【DATE】 to choose	〔FS=05〕	Choose capacity, the screen displays 02/03/05/06/10/15/20/30/50/60/75/80 circularly, take cap: 5000kg/2kg as example, choose FS=05, See the following table the list relating to FS, Id, Pt to be set.
Press 【ENTER】 to confirm	〔Id=02〕	The screen will display Id=02. If dynamometer was calibrated it will display the calibrated division.
Press 【ZERO】 or 【DATE】 to choose	〔Id=02〕	Choose division, it will display 01/02/05/10/20 circularly. 5000kg dynamometer division is 2kg, so choose Id=02

Press <b>【ENTER】</b>	[[Pt=0]]	The screen will display Pt=0. If dynamometer was calibrated it will display the calibrated decimal position
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[Pt=0]]	Choose decimal position, the screen display 0/1/2/3 circularly, 0=xxxxx, 1=xxxx.x, 2=xxx.xx, 3=xx.xxx , Cap.5000kg ,we choose Pt=0
Press <b>【ENTER】</b> to confirm	[[Ab=24]]	Display zero range, A: zero range by hand; B: zero range automatically, 0~5 total 6 options: 0=0%F.S; 1=2%F.S; 2=4%F.S; 3=10%F.S; 4=20%F.S; 5=50%F.S, Generally do not change this parameter.
Press <b>【ENTER】</b> to confirm	[[Cd=11]]	The screen will display Cd=11. If Dynamometer was calibrated, it will display the calibrated value.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[Cd=12]]	C: zero-tracking range, 0~5 total 6 options; 0=0d; 1=0.5d; 2=1d; 3=1.5d; 4=2d; 5=2.5d d: display speed, 0~2 total 3 options; 0=slow; 1=average; 2=fast; before calibration, set Cd=00 to achieve high accuracy, after calibration, set Cd=11 again, generally choose Cd=12 when ex-stock.
Press <b>【ENTER】</b> to confirm	[[LL=2]]	The screen will display LL=2. If dynamometer was calibrated, it will display the calibrated value.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[LL=1]]	LL: filter parameter, 0~5 total 6 options, from smallest to biggest, before calibration, set LL=0, after calibration, set LL=1, generally choose LL=1 when ex-stock.
Press <b>【ENTER】</b>	[[Un=0]]	The screen will display Un=0, if

to confirm		Dynamometer was calibrated, the screen will display the calibrated unit.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[ Un=0 ]]	Choose unit, Un=0: kg, Un=1: lb, Un=2: N, Un=3: KN, Un=4: t, Generally, choose Un=0 when ex-stock.
Press <b>【ENTER】</b> to confirm	[[ OFF 1 ]]	The screen will display OFF 1. If dynamometer was calibrated, it will display the calibrated value.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[ OFF 2 ]]	Choose turn off method, 0~2 total 3 options; 0: turn off by hand; 1: if no operation, the screen display ----- after 15minutes to save power; 2: if no operation, the screen display ----- after 15minutes, and turn off automatically after 60minutes. Generally, choose OFF=2 when ex-stock.
Press <b>【ENTER】</b>	[[ SP1 ]]	Set point 1
Press <b>【ENTER】</b> to confirm	[[ 1 OFF ]]	The screen will display 1 OFF, if parameter is set, it will display set value.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[ 1 HI ]] or [[ 1 LO ]]	There are 3 choices, 1 OFF means you do not set point, 1 HI means the indicator will alarm when load exceeds the value you set, 1 LO means the indicator will alarm when load is smaller than the value
Press <b>【ENTER】</b> to confirm	[[ 02000 ]]	The screen will display 02000, if parameter is set, the screen will display set value.
Press <b>【ZERO】</b> or <b>【DATE】</b> and <b>【TARE】</b> to change value	[[ 01000 ]]	Set "1 HI" or "1 LO" Value. e.g. 1000kg
Press <b>【ENTER】</b>	[[ SP2 ]]	Set point 2

Press <b>【ENTER】</b> to confirm	[[ 2 OFF ]]	The screen will display 2 OFF, if parameter is set, it will display set value.
Press <b>【ZERO】</b> or <b>【DATE】</b> to choose	[[ 2 HI ]] or [[ 2 LO ]]	There are 3 choices, 2 OFF means you do not set point, 2 HI means the indicator will alarm when load exceeds the value you set, 2 LO means the indicator will alarm when load is smaller than the value
Press <b>【ENTER】</b> to confirm	[[ 01200 ]]	The screen will display 01200, if parameter is set, the screen will display set value.
Press <b>【ZERO】</b> or <b>【DATE】</b> and <b>【TARE】</b>	[[ 03000 ]]	Set “2 LO” or “2 HI” Value. e.g.3000kg, input 3000
Press <b>【ENTER】</b>	[[ g= ]]	Acceleration of gravity
Press <b>【ENTER】</b> , <b>【ZERO】</b> or <b>【DATE】</b> and <b>【TARE】</b> to change value	[[ 9.7930 ]]	The screen will display 9.7930. If dynamometer is calibrated, it will display calibrated value. User can change it according to local area gravity value, the value range is 9.783 - 9.832.
Press <b>【MENU】</b> or <b>【MODE】</b> key	[[ End ]] [[ 0 ]]	Confirm above parameter setting. Exit parameter setting program.

The capacity you choose is related to divisions and decimal positions, below is a detailed list:

CAPACITY/DIVISION	FS (CAP)	Id (DIVISION)	Pt (Decimal position)
1000kg/0.5kg	10	05	1
2000kg/1kg	02	01	0
3000kg/1kg	03	01	0
5000kg/2kg	05	02	0

10000kg/5kg	10	05	0
15000kg/5kg	15	05	0
20000kg/10kg	20	10	0
30000kg/10kg	30	10	0
50000kg/20kg	50	20	0

### 7.3 Set Point through Indicator

OPERATION	DISPLAY	ILLUSTRATION
Press  or <b>【MODE】</b> twice	〔SETUP〕	Confirm, enter into parameter setting program
Press  until display	〔SP1〕	Set point 1
Press  to confirm	〔1 OFF〕	The screen will display 1 OFF, if parameter is set, it will display set value.
Press  or <b>【ZERO】</b> to choose	〔1 HI〕 or 〔1 LO〕	There are 3 choices, 1 OFF means you do not set point, 1 HI means the indicator will alarm when load exceeds the value you set, 1 LO means the indicator will alarm when load is smaller than the value
Press  to confirm	〔02000〕	The screen will display 02000, if parameter is set, the screen will display set value.
Press  or <b>【ZERO】</b> and 	〔01000〕	Set “1 HI” or “1 LO” Value. e.g. 1000kg
Press 	〔SP2〕	Set point 2
Press  to confirm	〔2 OFF〕	The screen will display 2 OFF, if parameter is set, it will display set value.

Press  or <b>【ZERO】</b> to choose	[[ 2 HI ]] or [[ 2 LO ]]	There are 3 choices, 2 OFF means you do not set point, 2 HI means the indicator will alarm when load exceeds the value you set, 2 LO means the indicator will alarm when load is smaller than the value
Press  to confirm	[[ 01200 ]]	The screen will display 01200, if parameter is set, the screen will display set value.
Press  or <b>【ZERO】</b> and 	[[ 03000 ]]	Set “2 LO” or “2 HI” Value. e.g.3000kg, input 3000
Press  or <b>【MODE】</b> or <b>【MENU】</b>	[[ 0 ]]	Return to weighing status, set point finish

## 7.4 Calibration

User must set all parameters before calibration.

### 7.4.1 One Point Calibration

OPERATION	DISPLAY	ILLUSTRATION
Turn on dynamometer and indicator	[[ 0 ]]	Take Cap: 5000kg dynamometer as an example,make sure it displays [[ 0 ]] before calibration, you can hang tare weight first, and then turn on to get zero reading.
Press <b>【MENU】</b> or <b>【MODE】</b> key 8 times,	[[ CLibr ]]	Access calibration Status
Press <b>【ENTER】</b> key	[[ CAL 1 ]]	Enter into one point calibration

		program
Press <b>【ENTER】</b> key	〔 CALSP 〕	Zero point calibration
Press <b>【ENTER】</b> key	〔 LoAd 〕	Hanging standard weight, e.g. 3000kg Waiting until STB signal on screen
Press <b>【ENTER】</b> key	〔 05000 〕	Display capacity you choose in parameter setting, and first digit flash, wait until “STB” signal display on screen.
Press <b>【ZERO】</b> or <b>【DATE】</b> and <b>【TARE】</b> key	〔 03000 〕	Press <b>【ZERO】</b> to change value, press <b>【TARE】</b> to move the digit
Press <b>【MENU】</b> or <b>【MODE】</b> key	〔 ----- 〕	Confirm and store
	〔 -oL- 〕	
	〔 End 〕	Calibration finished
	〔 3000 〕	

Attention: the standard load should be more than 20% capacity, it is better to use full capacity standard load

### 7.4.2 Three Point Calibration

If the dynamometer linearity is not good as you required, operate 3 point calibration as follows:

**Turn on the dynamometer, make sure it display 〔 0 〕 , even with tare weight.**

When the indicator is power off, press **【MENU】** or **【MODE】** and don't release, at the same time, insert indicator into PC to get power

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> or <b>【MODE】</b> ,insert to PC	〔 LOCAL 〕	
Press <b>【ZERO】</b>	〔 CLInt 〕	

or <b>【DATE】</b>		
Press <b>【ENTER】</b>	〔 u 1.03 〕	Display Current indicator Software version
	〔 88888 〕	Display Twice
	〔 Ert 〕	Display Twice
	〔 CH=E3 〕	Display current indicator channel E3
	〔 U=X.XX 〕	Display current indicator voltage is X.XX
	〔 SETdC 〕	
Press <b>【MENU】</b> or <b>【MODE】</b>	〔 SEtRF 〕	Dynamometer RF parameter setting
Press <b>【MENU】</b> or <b>【MODE】</b>	〔 SEt3P 〕	Enter into 3 point calibration
Press <b>【ENTER】</b>	〔 CAL 3 〕	Here take capacity 3000kg as example
Press <b>【ENTER】</b>	〔 CALSP 〕	Zero point calibration, wait until STB light on
Press <b>【ENTER】</b>	〔 LoAd1 〕	First load calibration
Hanging on first load e.g.1000kg		First load must exceed 20% capacity, Waiting until STB light on.
Press <b>【ENTER】</b>	〔 03000 〕	Display capacity
Press <b>【TARE】</b> and <b>【ZERO】</b> or <b>【DATE】</b>	〔 01000 〕	press <b>【ZERO】</b> to adjust digit, press <b>【TARE】</b> to move digit , Input 1000, wait until STB light on
Press <b>【ENTER】</b>	〔 LoAd2 〕	Second load calibration
Hanging on second load e.g.2000kg		Second load must exceed Load 1+20% capacity, Waiting until STB light on.
Press <b>【ENTER】</b>	〔 01600 〕	Mention you Load2 must exceed 1600kg
Press <b>【TARE】</b> and <b>【ZERO】</b> or <b>【DATE】</b>	〔 02000 〕	press <b>【ZERO】</b> to adjust digit, press <b>【TARE】</b> to move digit , Input 2000, wait until STB light on
Press <b>【ENTER】</b>	〔 LoAd3 〕	Third load calibration
Hanging on third load e.g.3000kg		Third load must exceed Load 2+20% capacity. Waiting until STB light on.
Press <b>【ENTER】</b>	〔 02600 〕	Mention your Load3 must exceed 2600kg
Press <b>【TARE】</b> and <b>【ZERO】</b> or <b>【DATE】</b>	〔 03000 〕	press <b>【ZERO】</b> to adjust digit, press <b>【TARE】</b> to move digit , Input 3000, wait until STB light on
Press <b>【ENTER】</b>	〔 ----- 〕 〔 End 〕	

	〔 3000 〕	
Press 【MENU】 or 【MODE】	〔SET3P〕	
Press 【MENU】 or 【MODE】	〔dFULt〕	
Press 【MENU】 or 【MODE】	〔 ESC 〕	
Press 【ENTER】	〔 3000 〕	Calibration finished

First load: LOAD1 must larger than 20% capacity, and  $LOAD1 < LOAD2 < LOAD3$ , at the same time, between LOAD1 and LOAD2, LOAD2 and LOAD3, the interval must bigger than 20% capacity

## 8. Display Illustration

DISPLAY	ILLUSTRATION	DESCRIPTION
〔noSig〕	Without wireless signal	Distance too far.
〔SETUP〕	Enter into parameter setting	
〔UAdJ〕	Enter voltage calibration	
〔LoAd〕	Calibration point	
〔-----〕	Exceed high limit	Tare weight cannot exceed full capacity
〔-----〕	Exceed low limit	Tare weight cannot be negative
〔-----〕	Waiting stable	
〔Err10〕	Weight less than Min. Capacity	Cannot accumulate the value
〔Err11〕	Accumulated times overflow	Cannot accumulate after 30 times
〔Err12〕	Accumulated weight overflow	Cannot accumulate after 99999
〔Err13〕	Error in repeat accumulation	Cannot accumulate one weight repeatedly

[[ no*** ]]	Current accumulation times	
[[ H**** ]]	Front four digit of accumulated	Total weight=front four digit + rare four digit
[[ L**** ]]	Rare four digit of accumulated	Total weight=front four digit + rare four digit
[[ CLr ]]	Ask if you really want to delete accumulated weight	In case of error deletion
[[ noCLr ]]	Give up deletion	
[[ 88888 ]]	Confirm deletion	
[[ --- ]]	Input value is too large	When you input tare or weight value
[[ ... ]]	Input value is too small	When you input tare or weight value
[[ noACC ]]	No accumulated value	When you check accumulation
[[ -oL0- ]]	Overload warning	Tare + Net weight exceed full capacity + 9e
[[ -oL1- ]]	Overload warning	Tare + Net weight exceed full capacity 125%
[[ -Lb- ]]	Low battery warning	Turns off automatically one minute later
[[ U*.** ]]	The voltage of current battery	
[[ End ]]	End	When parameter setting or calibration ready
[[ OFF ]]	Turn off	
[[ Unstb ]]	Input value before STB light on	

## 9. Troubleshooting Guides

PROBLEM	POSSIBLE CAUSE	SOLUTION
No display	Defective battery	Replace
	Defective button	Requires authorized service
	Power button not properly pressed	Press and hold ON/OFF key for three seconds
Digits flash	Low battery	Replace battery
Display does not respond to load changes	Faulty load cell or PCB	Requires authorized service
	Out of calibration	Re- calibration
Display experiences excessive Zero drift between weighing	Dynamometer does not stabilize after turning on	After turning on, heating 3-5 minutes.
Displayed weight shows large error	Dynamometer not Zeroed before applying weight	Depress ZERO before applying weight
	Requires recalibration	See calibration
	Kg/lb wrong selection	See operation
Wireless distance shortened	Wireless indicator's battery is low	Replace battery.

## 10. RS232 Protocol

Pre-code		Data(ASCII)					0X +/- (0 means + F means - ) X is decimal position	39 39 Commodity number	F0 Stable Signal F0: (stable) 00: (unstable)	F0 Wireless Signal F0: Have signal 00: Without signal
FF	AA	data (H)	data	data	data	data (L)				

**RS-232 Setup Instructions**  
**Communication Configuration**

Port : COM1  
 Baud Rate: 4800  
 Data Bits : 8  
 Stop Bits : 1  
 Parity : None  
 Display mode HEX

**11. Other Technical Guides and References**

These technical guides and references may affect the accuracy of the product if improper and mishandling application of these technical procedures. If you are no sure to do so, please contact technical support or help desk.

**11.1 Changing Wireless Channels**

Note: ( ) means the key on the dynamometer

【 】 means the key on the indicator

⌈ ⌋ means the display content

**11.1.1 Changing Channels of Indicator and Dynamometer with P180**

When the indicator is power off, press 【MENU】 and don't release, at the same time, insert indicator into PC to get power

OPERATION	DISPLAY	ILLUSTRATION
Press 【MENU】 ,insert to PC	⌈ LOCAL ⌋	
Press 【ENTER】	⌈ u 1.03 ⌋	Display Current handheld instrument Software version
	⌈ 88888 ⌋	Display Twice
	⌈ Ert ⌋	Display Twice
	⌈ CH=E3 ⌋	Display current indicator wireless channel E3
	⌈ U X.XX ⌋	Display Current handheld instrument voltage
	⌈ LOCAL ⌋	Local parameter setting

Press <b>【MENU】</b>	〔 CH E3 〕	Display current wireless channel(default is E3)Can be selected from 00 to FF, press <b>【ZERO】</b> to adjust digit,press <b>【TARE】</b> to move digit
Press <b>【ENTER】</b>	〔 End 〕 〔 ---- 〕 〔 0 〕 or 〔 noSIG 〕	Confirm and return. If the indicator display 〔 0 〕 , it means the wireless communication is working, if it display 〔 noSIG 〕 , it means after you changed the indicator channel, the dynamometer and indicator channel is different

Before changing dynamometer channel, make sure the dynamometer channel and indicator channel is same, otherwise indicator can't control dynamometer, you can turn on dynamometer and indicator to see if the channel is same or not. If not same, change indicator channel according to above instruments, to let indicator channel same as dynamometer channel at first.

Turn on the dynamometer, make sure the indicator is power off, then press **【MENU】** and don't release, at the same time, insert indicator into PC to get power.

OPERATION	DISPLAY	ILLUSTRATION
Press <b>【MENU】</b> ,insert to PC	〔 LOCAL 〕	
Press <b>【ZERO】</b>	〔 CLInt 〕	
Press <b>【ENTER】</b>	〔 u 1.03 〕	Display Current indicator Software version
	〔 88888 〕	Display Twice
	〔 Ert 〕	Display Twice
	〔 CH=E3 〕	Display current indicator channel E3
	〔 U=X.XX 〕	Display current indicator voltage is X.XX
	〔 SETdC 〕	
Press <b>【MENU】</b>	〔 SEtrF 〕	Dynamometer RF parameter setting
Press <b>【ENTER】</b>	〔 CH E3 〕	Display current dynamometer wireless channel(default is E3), Can be selected from 00 to FF, press <b>【ZERO】</b> to change digit, press <b>【TARE】</b> to move digit. If don't display CH E3, press <b>【ENTER】</b> again

Press <b>【MENU】</b>	〔SEtCd〕	<b>Make sure the dynamometer display</b> <b>〔END〕 and return to normal status</b> <b>such as display 〔 0〕 ,</b> <b>It means dynamometer save the change</b>
Press <b>【MENU】</b>	〔SEtRf〕	
Press <b>【MENU】</b>	〔SEt3P〕	
Press <b>【MENU】</b>	〔dFULt〕	
Press <b>【MENU】</b>	〔 ESC〕	
Press <b>【ENTER】</b>	〔CH E3〕 〔 0〕 or 〔noSIG〕	If the indicator display 〔 0〕 , it means the wireless communication is working, if it display 〔noSIG〕 , it means after you changed the dynamometer channel, dynamometer and indicator channel is different

### 11.1.2 Changing Channels of Indicator and Dynamometer with P380

When the indicator is power off, press **【ZERO】** and **【TARE】** simultaneously and don't release, at the same time, press **【ON/OFF】** key 3 seconds.

KEY	DISPLAY	ILLUSTRATION
Press <b>【 ZERO】</b> <b>【TARE】</b> <b>【 ON/OFF】</b> 3 Seconds	〔0000〕 3 seconds	Make sure after indicator display 〔8888〕 , then release the three keys
	〔8888〕	Display Twice
	〔 Ert〕	Display Twice
	〔u 1.2〕	Display Current handheld instrument Software version
	〔CH=E3〕	Display current indicator wireless channel E3
	〔U X.XX〕	Display Current handheld instrument voltage
	〔LOCAL〕	Local parameter setting
Press <b>【MODE】</b>	〔CH E3〕	Display current wireless channel(default is E3)Can be selected from 00 to FF, press <b>【 ZERO】</b> to adjust digit,press <b>【TARE】</b> to move digit
Press <b>【 PEAK】</b> and <b>【ENTER】</b>	〔 0〕 or 〔noSIG〕	press <b>【PEAK】</b> and <b>【ENTER】</b> at same time above 3 seconds to save the change, also for recall the data saved

		If the indicator display [ 0 ], it means the wireless communication is working, if it display [ noSIG ], it means after you changed the indicator channel, the dynamometer and indicator channel is different
--	--	---

Before changing dynamometer channel, make sure the dynamometer channel and indicator channel is same, otherwise indicator can't control dynamometer, you can turn on dynamometer and indicator to see if the channel is same or not. If not same, change indicator channel according to above instruments, to let indicator channel same as dynamometer channel at first.

Turn on the dynamometer, make sure the indicator is power off, then press **【PEAK】** and **【MODE】** simultaneously and don't release, at the same time, press **【ON/OFF】** key 3 seconds

KEY	DISPLAY	ILLUSTRATION
Press <b>【PEAK】</b> <b>【MODE】</b> <b>【ON/OFF】</b> 3 Seconds	[ 00000 ] 3 seconds	Make sure after indicator display [ 88888 ], then release the three keys
	[ 88888 ]	Display twice
	[ Ert ]	Display twice
	[ u 1.2 ]	Display current indicator software version
	[ CH=E3 ]	Display current indicator wireless channel E3
	[ U=X.XX ]	Display current battery voltage is X.XX
	[ SETdC ]	
Press <b>【MODE】</b>	[ SEtrF ]	Dynamometer RF parameter setting
Press <b>【ENTER】</b>	[ CH E3 ]	Display current dynamometer wireless channel(default is E3), Can be selected from 00 to FF, press <b>【ZERO】</b> to change digit, press <b>【TARE】</b> to move digit. If don't display CH E3, press <b>【ENTER】</b> again
Press <b>【MODE】</b>	[ SEtrF ]	Make sure the dynamometer display [ END ] and return to normal status such as display [ 0 ], It means dynamometer save the change
Press <b>【MODE】</b>	[ SEt3P ]	Used for 3 point calibration
Press <b>【MODE】</b>	[ dFULt ]	Used for save indicator date

Press <b>【MODE】</b>	〔 ESC 〕	
Press <b>【ENTER】</b>	〔 CH E3 〕 〔 0 〕 or 〔 noSIG 〕	If the indicator display 〔 0 〕 , it means the wireless communication is working, if it display 〔 noSIG 〕 , it means after you changed the dynamometer channel, dynamometer and indicator channel is different
Press <b>【 ON/OFF 〕</b>		Turn off

### 11.1.2 Changing Channels of Indicator and Dynamometer with P580

When the indicator is power off, press  and don't release, at the same time, press 

OPERATION	DISPLAY	ILLUSTRATION
Press  and 	〔 LOCAL 〕	
Press 	〔 88888 〕	Display Twice
	〔 Ert 〕	Display Twice
	〔 u 1.08 〕	Display Current indicator Software version
	〔 CH=E3 〕	Display current indicator wireless channel E3
	〔 U X.XX 〕	Display Current handheld instrument voltage
	〔 LOCAL 〕	Local parameter setting
Press 	〔 CH E3 〕	Display current wireless channel(default is E3)Can be selected from 00 to FF, press

		 to adjust digit, press  to move digit
Press 	[ End ] [ ---- ] [ 0 ] or [ noSIG ]	Confirm and return. If the indicator display [ 0 ], it means the wireless communication is working, if it display [ noSIG ], it means after you changed the indicator channel, the dynamometer and indicator channel is different

Before changing dynamometer channel, make sure the dynamometer channel and indicator channel is same, otherwise indicator can't control dynamometer, you can turn on dynamometer and indicator to see if the channel is same or not. If not same, change indicator channel according to above instruments, to let indicator channel same as dynamometer channel at first.

Turn on the dynamometer, make sure the indicator is power off, then press

 and don't release, at the same time, press 

OPERATION	DISPLAY	ILLUSTRATION
Press  and 	[ LOCAL ]	
Press 	[ CLInt ]	
Press 	[ 88888 ]	Display Twice
	[ Ert ]	Display Twice
	[ u 1.08 ]	Display Current indicator Software version
	[ CH=E3 ]	Display current indicator wireless channel E3
	[ U X.XX ]	Display Current indicator voltage

	〔SETdC〕	Voltage setting
Press 	〔SEtrF〕	Dynamometer RF parameter setting
Press 	〔CH E3〕	Display current wireless channel(default is E3)Can be selected from 00 to FF, press  to adjust digit,press  to move digit, if don't display 〔CH E3〕 ,press  again
Press  one second	〔SETdC〕	<b>Make sure the dynamometer display 〔END〕 and return to normal status such as display 〔 0〕 ,</b> <b>It means dynamometer save the change</b>
Press 	〔-----〕 〔 0〕 or 〔noSlg〕	If the indicator display 〔 0〕 , it means the wireless communication is working, if it display 〔noSlg〕 , it means after you changed the dynamometer channel, dynamometer and indicator channel is different

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