ANYLOAD®

OCSD-P580 WIRELESS DYNAMOMETER

USER MANUAL

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SAFE OPERATION GUIDE：

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 conditions 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 this 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 and make sure 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.

CHAPTER 1 FEATURES AND SPECIFICATIONS

1.1 Features

- **Body protection:** Aluminum and alloy steel capacities are powder coated.
- **Accuracy:** 0.05% for 1-50t, 0.1% for above 50t capacity.
- **Units:** Units are clearly displayed on the screen**,** available in the following measurement readings: Kilograms (kg), short Tons (t) pounds (lb), Newton and kilo-Newton (kN)
- **Shackles:** High tension industrial standard G2130 anchor shackle bows with galvanized finish.
- **Gravity regulation:** The acceleration of gravity can be regulated through indicator parameter settings according to different places value.
- **Functions:** Wireless indicator with many functions: ZERO, TARE, LOW BATTERY warnings, PEAK hold, overload warning. User calibration (with password).
- **Set-Point:** Two user programmable Set-Point can be used for safety and warning applications or limit weighing.
- **Body indicator keys:** 4 local mechanical keys:"ON/OFF","ZERO","PEAK" and "UNIT CHANGE".
- **Indicator communications:** Both RS232 serial port and USB port, solve most laptops without serial port problem. With the manufacturer's PC host computer software, not only displays weight value and stable information on the PC but can also enter the company's name, complete storage, print query and other functions.
- **Antenna:** Internal antenna
- **Function on indicator keyboard:** It can print data, time, serial number, commodity number, net weight and total weight. It can also input 9 digits head information and can store up to 2000 weighing records. It can store statistics by serial number or commodity number and statistical data. Statistical results can be printed with weighing number and total weight.

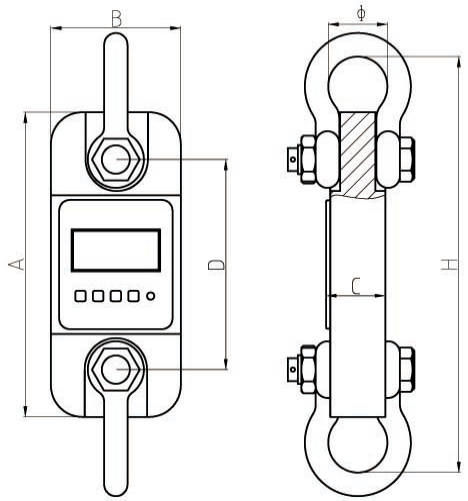
1.2 Main technical data

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	"LR6 (AA)"size alkaline batteries. 1.5Vx3
Indicator battery	7.2V/ 3.3Ah Ni-H rechargeable battery
Operating Temp.	- 10 ℃ ~ + 40℃
Operating Humidity	≤85% RH under20℃
Indicator printer	FUJITSU FTP-628 MCL101#50〃 high speed thermal printer
Wireless Distance	Min. 80m(default) , 200m(optional)
Wireless Frequency	2.4GHz(default),433MHz,860MHz(optional)

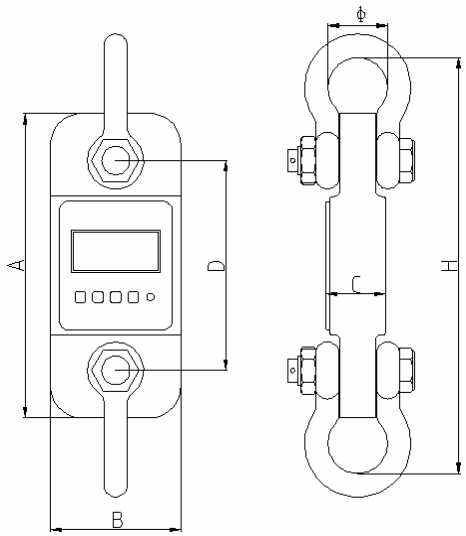
1.3 Specifications

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

1.4 Appearance illustration



Cap: 1-5t



Cap: 10-200t

DIMENSIONS (Dimensions shown are nominal and subject to tolerances)

MENUL	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	30	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

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

1.5 Power supply

Dynamometer battery: “LR6 (AA)”size alkaline batteries. 1.5VX3

Indicator battery: 7.2V/ 3.3Ah Ni-H rechargeable battery

Current: the dynamometer average current is about DC 35mA, 3pcs new batteries can be used for about 40hours continuously.

Wireless indicator average current is about DC 50mA. Fully charged batteries can be used for about 80 hours continuously.

Low battery warning: When the digits flash, it means the battery needs to be replaced. The Dynamometer or wireless indicator will power off automatically after one hour without operation.

CHAPTER 2 DISPLAY AND KEYS

2.1 Dynamometer display

2.1.1 LCD Display

25mm (1’’) 5 digits LCD with backlight.

2.1.2 Signal

a. :

Wireless signal, when symbol appears it means signal is stable. It disappears when there is no signal and flashes when signal is weak.

b. : Battery Voltage, : Full, : Low, : Empty

c. **PEAK**：Current value is Peak Hold value (maximum value).

d. **MEM**：Appears one time when Parameter or calibration value is stored. Long time appearance means current value is Accumulation data.

e. **STB:** Stable Status.

f. **kN**: “kilo-Newton”, **N**：“Newton”. Tare status “N” will flash.

g. **t** ：“ton”

h. **lb** ：“pound”

i. **kg** ：“kilogram ”

2.1.3. Keys

a. **ON/OFF**

1. Press “**ON/OFF”** key for 1 second, the Dynamometer will turn on.
2. In ON status，Press “**ON/OFF”** key for 1 second，the Dynamometer will turn off.

b. ZERO

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

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

d. PEAK

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.

2.2 Indicator display

2.2.1 LCD Display

25mm (1’’) 5 digits LCD with backlight

2.2.2 Signal

Same as dynamometer signal

2.2.3 Key

- ON : Turn on
- OFF : Turn off
- CN : Cargo number, from 00 to 99, Set CN， to distinguish different goods
- SN : Serial number, from 00000 to 99999, to distinguish different time weighing
- BL : LCD Backlight
- TIME : Set time
- DATE : Set date and set digit up
- RE PRINT : Repeat print current weighing data
- SAVE PRINT : Save in memory and print current weighing data
- PEAK : Peak function and move digit left
- TARE : Tare function and move digit right
- AUTO : Set print MENU
- CLEAR : Clear memory
- ZERO : Zero function and move digit down
- COUNT : Statistics function
- ESC : Return to previous menu
- MENU : Select menu
- ENTER : Confirm

CHAPTER 3 DYNAMOMETER FUNCTION GUIDE

( ) means the key on the dynamometer
〖 〗means the display content

3.1 ON/OFF

◆TURN ON dynamometer

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

◆TURN ON indicator

OPERATION	DISPLAY	ILLUSTRATION
Press ON	〖88888〗	Displays twice, self test
	〖 Ert 〗	Displays twice
	〖u 1.08〗	Displays current indicator software version
	〖CH=E3〗	Displays current wireless channel E3
	〖U=7.xx〗	Displays current indicator battery voltage is 7.xx
	〖 0〗or〖noSIg〗	If display reads 0, it means the indicator can communicate with the dynamometer, if display reads “noSIg”, it means there is no signal from

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.

◆TURN OFF dynamometer

1	Manual Power OFF	Press (ON/OFF) key for 1 Second
2	Remote Power OFF	Press MENU key to select “OFF”, press ENTER Key
3	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.

◆TURN OFF indicator

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

3.2 ZERO

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

3.3 TARE

	OPERATION	DISPLAY	
	Press TARE	〖 0〗	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.

3.4 PEAK HOLD

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

3.5 SET TIME

OPERATION	DISPLAY	ILLUSTRATION
Press TIME	〖 hh〗	Displays current clock
Press MENU	〖mm-ss〗	Displays current minute and second
Press ENTER	〖mm-ss〗	Press ENTER until digit m flashes, Press DATE, ZERO TARE PEAK to set current time, Press MENU to set current clock
Press SAVE PRINT	〖 0〗	Save set time and return

3.6 SET DATE

OPERATION	DISPLAY	ILLUSTRATION
Press DATE	〖YYYY〗	Displays current year
Press MENU	〖mm-dd〗	Displays current month and date
Press ENTER	〖mm-dd〗	Press ENTER until digit m flashes, Press DATE, ZERO TARE PEAK to set current date, Press MENU to set current year
Press SAVE PRINT	〖 0〗	Save set date and return

3.7 SET CN(CARGO NUMBER)

OPERATION	DISPLAY	ILLUSTRATION
Press CN	〖 00〗	Displays current cargo number, press DATE, ZERO TARE PEAK to set new cargo number,
Press SAVE PRINT	〖 0〗	Save and return

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

3.8 SET SN(SERIAL NUMBER)

OPERATION	DISPLAY	ILLUSTRATION
Press SN	〖 00〗	Displays current serial number, press DATE, ZERO TARE PEAK to set new serial number,
Press SAVE PRINT	〖 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 distinguish different goods.

3.9 UNIT

	OPERATION	DISPLAY	ILLUSTRATION
1	Press MENU 4 times	〖UnIt 〗	
	Press ENTER	〖Un=0〗	Un=0, the unit is kg, press DATE to select unit from 0-4, 1 means lb, 2 means N, 3 means KN, 4means ton.
	Press MENU	〖 0〗	Confirm unit chosen and return
2	Press (UNIT)	〖Un =0〗	The dynamometer will display kg, lb, N,

3.10 BATTERY VOLTAGE

OPERATION	DISPLAY	ILLUSTRATION
Press MENU 3 times,	〖 dC〗	
press ENTER	〖U *.**〗	Display current dynamometer battery voltage
Press ESC	〖 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.

3.11 SET PRINT METHOD

OPERATION	DISPLAY	ILLUSTRATION
Press AUTO	〖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 SAVE PRINT key to print data when weighing is stable, press ENTER to shift from these two items
Press MENU	〖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 ENTER to shift from these three items
Press MENU	〖 CHn〗or 〖 Eng〗	CHn means print in Chinese, Eng means print in English, press ENTER to shift from these two items
Press MENU	〖Hd.OFF〗 or〖Hd.On〗	Hd.OFF means print without head, Hd.On means print with head, press ENTER to shift from these two items
Press MENU	〖1.XXXX〗	Input head, XXXX is character code, 1 means first character, press ENTER for second, third character, total of nine characters, for character code list please
Press SAVE PRINT	〖 0〗	Save all your settings and return

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

3.12 SET POINT

There are two user programmable Set-Points SP1 and SP2 that 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 MENU twice	〖SETUP〗	Confirm, enter into parameter setting program
Press ENTER until display	〖SP1 〗	Set point 1
Press ENTER to confirm	〖1 OFF〗	The screen will display 1 OFF, if parameter is set, it will display set value.
Press DATE 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 ENTER to confirm	〖02000〗	The screen will display 02000, if parameter is set, the screen will display set value.
Press DATE and TARE	〖01000〗	Set “1 HI” or “1 LO” Value. e.g. 1000kg
Press ENTER	〖 SP2〗	Set point 2
Press ENTER to confirm	〖2 OFF〗	The screen will display 2 OFF, if parameter is set, it will display set value.
Press DATE 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 ENTER to confirm	〖01200〗	The screen will display 01200, if parameter is set, the screen will display set value.
Press DATE and TARE	〖03000〗	Set “2 LO” or “2 HI” Value. e.g.3000kg, input 3000
Press ESC	〖 0〗	Return to weighing status, set point finish

Chapter 4 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

4.1 Input in 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

4.2 Statics and print

OPERATION	DISPLAY	ILLUSTRATION
Press COUNT	〖COUnt〗	Press ENTER to print total data record, but after it is turned off, it cannot print again.
Press MENU	〖P0001〗	Press ENTER to print No:0001 data, you can press ↑ DATE to choose different no and print.
Press MENU	〖LFPrt〗	Press ENTER to forward paper without print
Press ESC	〖 0〗	Return to weighing status

4.3 Print per date

OPERATION	DISPLAY	ILLUSTRATION
Press ↑ DATE	〖 YYYY〗	Displays current year
Press MENU	〖mm-dd〗	Displays current date
Press ENTER	〖mm-dd〗	Press ENTER until digit m flashes, press ↑ DATE, ZERO, TARE, PEAK to set date which you want to print data.
Press COUNT	〖 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

4.4 Print per CN

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

4.5 Print per SN

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

4.6 Clear

OPERATION	DISPLAY	ILLUSTRATION
Press CLEAR	〖CLrP1〗	Press ENTER will clear current weighing data and return to weighing status
Press MENU	〖CLrP2〗	Press ENTER will clear total weighing data saved and return to weighing status
Press COUNT	〖 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.

CHAPTER 5 PARAMETER SETTING & CALIBRATION

5.1 Parameter setting

OPERATION	DISPLAY	ILLUSTRATION
Press MENU key twice	〖SETUP〗	Confirm, enter into parameter setting program
Press ENTER	〖FS=06〗	The screen will display FS=06 ， if dynamometer is calibrated, it will display capacity.
Press DATE to choose	〖FS=05〗	Choose capacity, the screen will display 02/03/05/06/10/15/20/30/50/60/75/80 circularly. Choose cap: 5000kg/2kg as an example, choose FS=05, See following list about FS, Id, Pt chosen.
Press ENTER to confirm	〖Id=02〗	The screen will display Id=02, if dynamometer is calibrated, it will display calibrated division.
Press 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 ENTER	〖Pt=0〗	The screen will display Pt=0, if dynamometer is calibrated, it will display calibrated decimal position
Press DATE to choose	〖Pt=0〗	Choose decimal position, the screen will display 0/1/2/3 circularly, 0=xxxxx, 1=xxxx.x, 2=xxx.xx, 3=xx.xxx ，Cap.5000kg , choose Pt=0
Press ENTER to confirm	〖Ab=24〗	Displays 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 ENTER to confirm	〖Cd=11〗	The screen will display Cd=11, if Dynamometer is calibrated, it will display calibrated value.
Press DATE to choose	〖Cd=12〗	C: zero-tracking range, 0~5 total of 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 ENTER to confirm	〖LL=2〗	The screen will display LL=2, if dynamometer is calibrated, it will display calibrated value.
Press DATE 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 ENTER to confirm	〖Un=0〗	The screen will display Un=0, if dynamometer is calibrated, the screen will display calibrated unit.
Press DATE to choose	〖Un=0〗	Choose unit, Un=0:kg, Un=1: lb, Un=2: N,Un=3: KN, Un=4: ton, Generally, choose Un=0 when ex-stock.

Press ENTER to confirm	〖OFF 1〗	The screen will display OFF 1, if dynamometer is calibrated, it will display calibrated value.
Press DATE to choose	〖OFF 2〗	Choose turn off method, 0~2 total 3 options; 0: turn off by hand; 1: if no operation, the screen will display ----- after 15minutes to save power; 2:
Press ENTER	〖SP1 〗	Set point 1
Press ENTER to confirm	〖1 OFF〗	The screen will display 1 OFF, if parameter set, it will display set value.
Press DATE 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
Press ENTER to confirm	〖02000〗	The screen will display 02000, if parameter is set, the screen will display set value.
Press DATE and TARE to change value	〖01000〗	Set “1 HI” or “1 LO” Value. e.g. 1000kg
Press ENTER	〖 SP2〗	Set point 2

Press ENTER to confirm	〖2 OFF〗	The screen will display 2 OFF, if parameter is set, it will display set value.
Press DATE 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
Press ENTER to confirm	〖01200〗	The screen will display 01200, if parameter is set, the screen will display set value.
Press DATE and TARE to change value	〖03000〗	Set “2 LO” or “2 HI” Value. e.g.3000kg,input 3000
Press ENTER	〖g= 〗	Acceleration of gravity

Press ENTER DATE and TARE 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 g value, the value range is 9.783-9.832.
Press ESC	〖 End 〗 〖 0〗	Confirm above parameter setting. Exit parameter setting program.

. **The capacity you choose relates to divisions and decimal position, 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

100t, 200t use specail software, no need to set FS, Id, Pt.

5.2 Calibration

User must set all parameters before calibration

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, then turn on to get zero reading
Press MENU 8 times,	〖CLIbr〗	Access calibration mode
Press ENTER	〖CAL 1〗	Enter into one point calibration program
Press ENTER	〖CALSP〗	Zero point calibration
Press ENTER	〖LoAd 〗	
Hanging standard weight, e.g. 3000kg		Waiting until STB signal on screen
Press ENTER	〖 5000〗	Display capacity you chose in parameter setting. Wait until “STB” signal display is on screen.
Press DATE and TARE to change value	〖03000〗	Press DATE to change value, press TARE to move the digit, input actual weight 3000kg
	〖-------〗	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

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】and don’t release, at the same time, insert indicator into PC to get power

OPERATION	DISPLAY	ILLUSTRATION
Press【MENU】,insert to PC Press【MENU】,insert to PC	〖LOCAL〗	
Press 【ZERO】	〖CLInt〗	
Press【ENTER】	〖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【MENU】	〖SEtrF〗	Dynamometer RF parameter setting
Press【MENU】	〖SEt3P〗	Enter into 3 point calibration
Press【ENTER】	〖CAL 3〗	Here take capacity 3000kg as example
Press【ENTER】	〖CALSP〗	Zero point calibration, wait until STB light on
Press【ENTER】	〖LoAd1〗	First load calibration
Hanging on first load e.g.1000kg		First load must exceed 20% capacity, Waiting until STB light on.
Press【ENTER】	〖03000〗	Display capacity
Press【TARE】【ZERO】	〖01000〗	press【ZERO】to adjust digit,press【TARE】to move digit , Input 1000, wait until STB light on
Press【ENTER】	〖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【ENTER】	〖01600〗	Mention you Load2 must exceed 1600kg
Press【TARE】【ZERO】	〖02000〗	press【ZERO】to adjust digit,press【TARE】to move digit , Input 2000, wait until STB light on
Press【ENTER】	〖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【ENTER】	〖02600〗	Mention you Load3 must exceed 2600kg .
Press【TARE】【ZERO】	〖03000〗	press【ZERO】to adjust digit,press【TARE】to move digit , Input 3000, wait until STB light on
Press【ENTER】	〖------ -〗 〖 End 〗 〖 3000〗	
Press【MENU】	〖SET3P〗	
Press【MENU】	〖dFULt〗	

Press【MENU】	〖ESC〗	
Press【ENTER】	〖3000〗	Calibration finish

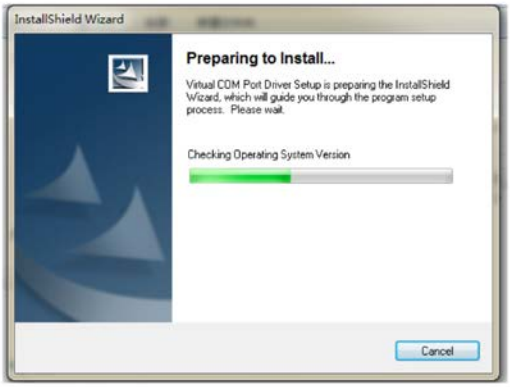
First load: LOAD1 must larger than 20% capacity，and LOAD1<LOAD2<LOAD3, at the same time, between LOAD1 and LOAD2， LOAD2 and LOAD3, the interval must bigger than 20% capacity

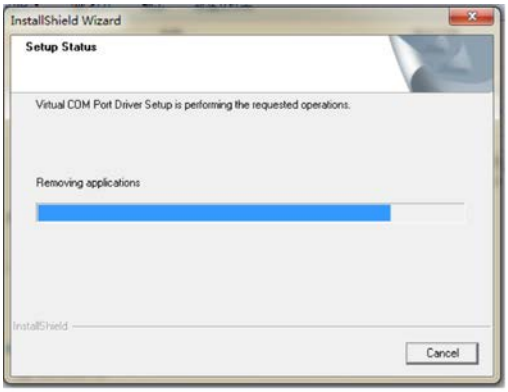
CHAPTER 6 COMMUNICATION WITH PC

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

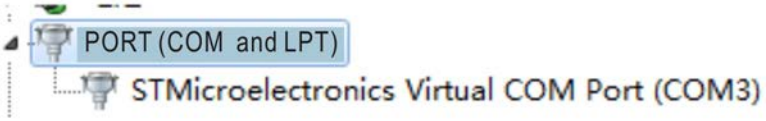
6.1 Installing drive software

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”.



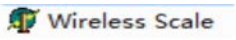


After “VCP_1.3.1_Setup” is running, plug in USB kit to PC. The PC will automatically find it. Open device manager to check if virtual com port communication was successful or not. If the device manager has below pictorial prompts it means it was successful.

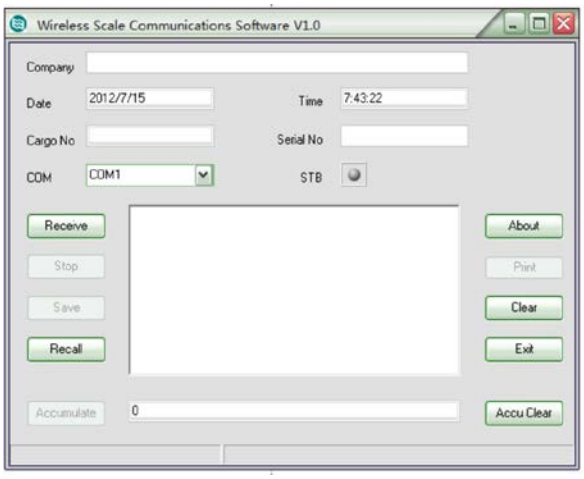


Note: The port number is random, if the port number is more than 4, you need to change it, normally it can be changed to “COM3”.

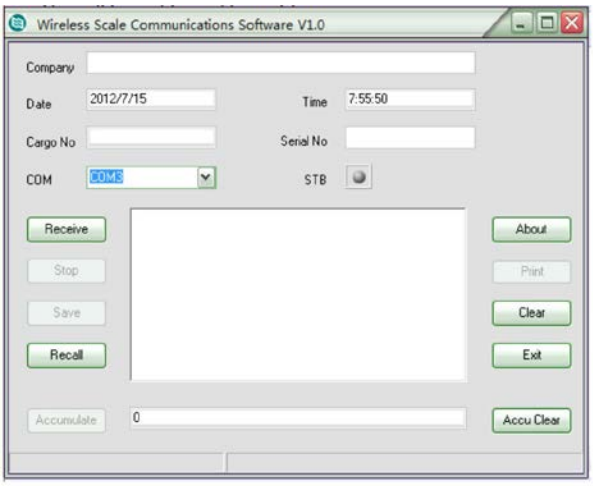
6.2 Run weighing software

After installing drive software, you can run PC software 

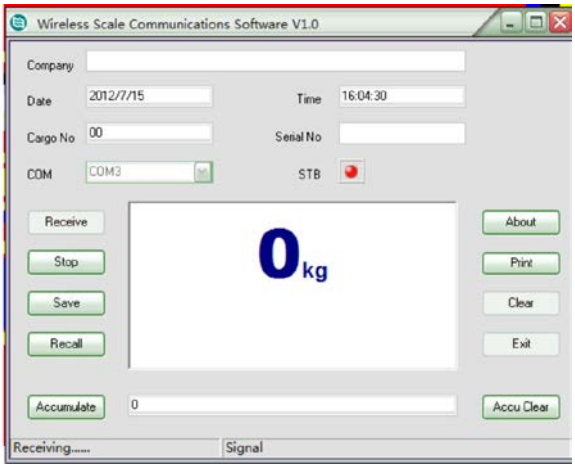
in CD ROM, and the PC displays as follows:



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.

CHAPTER 7 DISPLAY ILLUSTRATION

DISPLAY	ILLUSTRATION	REMARK
〖noSIg〗	Without wireless signal	Distance is 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 30times
〖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 digits of accumulated	Total weight= front four digits + rare four digits
〖L****〗	Rare four digits of accumulated	Total weight = front four digits + rare four digits
〖 CLr 〗	Ask if you really want to delete accumulated weight	In case 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 any accumulated content	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 are
〖 OFF 〗	Turn off	
〖Unstb〗	Input value before STB light on	

CHAPTER 8 TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOUTION
No display	Defective battery	Replace
	Defective button	Requires authorized service
	Power button not properly pressed	Press ON/OFF key firmly in 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 weighment	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.

CHAPTER 9 RS232 PROTOCOL

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

RS-232 Setup Instructions

Communication Configuration

Port: COM1

Baud Rate: 4800

Data Bits: 8

Stop Bits: 1

Parity: None

Display mode HEX