
WIRELESS CRANE SCALE

TECHNICAL MANUAL



TPS

MODEL: TPS - HWL7

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CHAPTER 1 INSTRUCTION

Generally, we don't suggest that user calibrate and set parameter by yourselves, Our company can't promise the crane scale accuracy if you recalibrate by yourselves. We use manu list to set parameter and calibrate, you can see our user manual for the key function and display content.

CHAPTER 2 PARAMETER SETTING

2.1 system parameter setting

In weighing status, press“  the indicator display as follows:

Settings	Ver2.30
1. Print	2. System
3. Zero	4. Commun
5. Filter	6. Others

Press “2/TIME”, it displays “password 000000”,the initial password is 111111, input password then press “ENTER” to confirm, it displays as follows:

System settings	
1. Calibrat	4. Power sa. <input checked="" type="checkbox"/>
2. Parameter	5. Print te. <input type="checkbox"/>
3. Password	6. Stability: 05

Under “system setting”interface, press “2/TIME”, it dispalys as follows:

Parameters	
1. Zero pos.	XXXXXXXX XXXXXXXX
2. Parameter	XXXXXXXX XXXXXXXX

These parameter is auto result after calibration, it can't be changed by user.

■ Password setting

Under “system setting”interface, press “3/DATE”, it dispalys as follows:

Old password:
○ ○ ○ ○ ○ ○

Input current password and press “ENTER”, it dispalys as follows:

New password:
○ ○ ○ ○ ○ ○

Input new password and press “ENTER” to confirm, it displays as follows:

```
New password:
      ××××××
Press [Enter] to confirm
```

Press “ENTER” again to confirm, the indicator display “completed” and return to system settings interface, the password change succeed.

■ Power saving setting

Under “system setting” interface, press “4/L.F”, you can start or close power saving function, if start, the pane behind will display “√”, if close, the “√” will disappear, after choosed, press “ENTER” to confirm.

Under power saving mode, the indicator will turn off automatically after no operation 30minutes.

If no power saving, it will turn off until low battery.

■ Print test setting

Under “system setting” interface, press “5/AUTO”, you can start or close print test function. if start, the pane behind will display “√”, if close, the “√” will disappear, after choosed, press “ENTER” to confirm.

If choosed, when repair print, you only need to press “7/F1” and input digit to test print, it’s convenient when no weighing data input.

■ Stability setting

Under “system setting” interface, press “6/STAT”, you can choose weighing stability parameter. (in weighing status, the slim fluctuate of weight will influence “STE” appearance) the indicator display “stability: 00”, input digit directly and press “ENTER” to confirm, the indicator displays “completed” and return to system setting interface.

The default is 05, generally we don’t suggest user change this parameter. If the weight rock slight, you can choose samll value.

2.2 Print parameter setting

In weighing status, press “ /  ”, it displays as follows: :

```
Settings                               Ver2.30
  1. Print                               2. System
  3. Zero                                 4. Commun
  5. Filter                              6. Others
```

press “1/CLEAE” into following interface:

```
Save and print settings
1. Based on SN & CN  4. Print All 
2. Not based on SN & CN
3. Auto save & print 
```

The default is as follows: 1.under Based on SN & CN, choose save &print". 2.under Not based on SN &CN, choose save &print, 3. Auto save & print are not choosed. 4.print all function are not choosed. Details see user manual.

2.3 Fliter parameter setting

In weighing status, press“  ” , it displays as follows:

Settings	Ver2.30
1. Print	2. System
3. Zero	4. Commun
5. Filter	6. Others

Press “5/AUTO” into Filter setting interface:

Filter setting	
Filter level:	4

Input corresponding parameter then press “ENTER” to confirm,it dispalys “ completed” and return,the parameter set finished.

Fliter parameter used for anti shake, you can choose 0-7 to set this parameter.

0,1 used in samll rock status, 6,7 used big rock status. default is 4

CHAPTER 3 CALIBRATION

3.1 Parameter setting before calibration

■ Zero range setting

Set zero range according to USER MANUAL chapter3.2, set power on zero range as 20%, manual zero range as 4%

■ Fliter setting

Set fliter as 1 according to chapter 2.3, if rock heavier when calibrate cause to reading not stable, set it to 2.

■ Stability setting

Set stability as 02 according to chapter2.1

■In weighing status, press“  ” , it displays as follows:

Settings	Ver2.30
1. Print	2. System
3. Zero	4. Commun
5. Filter	6. Others

Press "2/TIME", it displays "password 000000", the initial password is 111111, input password then press "ENTER" to confirm, it displays as follows:

```

System settings
1. Calibrat      4. Power sa. 
2. Parameter    5. Print te. 
3. Password     6. Stability: 05
  
```

Press "1/CLEAR", it displays following calibration interface:

```

Calibration
1. Divisi: 02      2. Decimal: 0
3. Capaci: 05000  4. Zero pos
5. Linearity:
  
```

3.2 Introduction

The choose of division, Decimal related with capacity, following is detail list.

Capacity/Division	Capacity	Division	Decimal
1000kg/0.5kg	01000	05	1
2000kg/1kg	02000	01	0
3000kg/1kg	03000	01	0
5000kg/2kg	05000	02	0
10000kg/5kg	10000	05	0
15000kg/5kg	15000	05	0
20000kg/10kg	20000	10	0
30000kg/10kg	30000	10	0

■ Division

Under "calibration" interface, press "1/CLEAR", it displays as follows: "Divisi: 00", input corresponding digit, then press "ENTER" to confirm, it displays "completed" and return.

Attn: Division: 1, 2, 5, 10, 20, 50 can be choosed.

■ Decimal position

Under "calibration" interface, "press"2/TIME", it displays as follows: "Decimal: 0", input corresponding digit, then press "ENTER" to confirm, it displays "completed" and return.

Attn: Decimal : 0-4 can be choosed.

■ Capacity

Under "calibration" interface, press "3/DATE", it displays as follows: "Capaci: 00000", input corresponding digit, then press "ENTER" to confirm, it displays "completed" and return.

3.3 Operation

Calibration steps are as follows:

■ Turn on

Before calibration, turn on scale and indicator and confirm communication is ready.

■ zero set

When no load, under calibration interface, there are some digits show at linearity line, after display "ste" behind, press "4/L.F" to confirm zero point, it displays "completed" and return. Zero setting finish.

■ weight calibration

After setting zero point, load the standard weight, there are some digits show at linearity line, after display "ste" behind, press "5/AUTO", then input corresponding standard weight, after ready, press "ENTER" to confirm.

■ After calibration,

set filter back to 4, then set stability back to 05, press "  " return to weighing interface, you can start weighing operation now.

CHAPTER 4 RS232 PROTOCOL

Pre-code		Data(ASCII)					OX	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