T3805 INDICATOR

MANUAL

MAIN SPECIFICATIONS

- Performance prompt-setting with single key, easy to operate
- 7-digit LED display
- Use the technology of SMT
- A/D convert: 300,000 counts (40/s)
- Resolution: External 50,000 counts
- RS-232 (RS 485) communication interface
- Parallel printing interface
- AC power supply
- Dimension: 170 x 80 x 65 mm

T3805

Please read the manual before using, and operate according to this manual.

If you have some problems, please contact with us.

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CHAPTER 1. SURVEY

Main Function of T3805:

1. Adopt the technology of three-integral, 16 kinds of capacity can be chose.
2. Calibration without full-capacity, data inputting with only one key.
3. Many kinds of filter parameter setting.
4. Many kinds of division can be selected.
5. The position of decimal point can be selected.
6. Many kinds of unit can be selected.
7. Zero-tracking range and zero-catching can be selected.
8. Many kinds of print-mode can be selected.
9. Fixed value 1 and fixed value 2 can be set, used for set points and alarm.
10. Many kinds of baud rate and transmit format selection, successive transmission and net communication with 26 (52) pieces.
11. Date, time, vehicle number, cargo number, unit-price, fixed value 1, fixed value 2 setting.
12. Weight, sum, total times, total weight, total sum display and printing.
13. Positive and negative peak value test.
14. Data protect when power off.
15. Much error information.

CHAPTER 2. MAIN PARAMETER

1. Style ---------- T3805 indicator
2. Precision ---------- OIML
3. Display ---------- 7 digits 12.7 mm LED display
4. Keyboard ---------- 5 function keys, can be extended to 16keys
5. Division ---------- 1, 2, 5, 10, 20, 50 selecting
6. Tare range ----------100% FS
7. Load cell ---------- Style A : drive 1 of 350 Ω

   Style B : drive 4 of 350 Ω.
8. Communication interface -- Standard RS-232C interface. (RS-485 extended).

   Baud rate selectable, contact with PC and large display
9. Print interface ---------- Parallel interface, contact with micro-printer
10. Voltage ----------AC: 220V (+10%, -15%), 50 Hz, 5 W
11. Storage-humidity ---------- ≤70% RH Non-Dew
12. Working-humidity ---------- ≤90% RH Non-Dew
13. Storage temperature ---------- -10º … +50ºC
14. Working temperature ---------- 0ºC … +40ºC
15. Fuse ---------- 1 A
16. Size ---------- 170×70×105 (mm)
17. Weight ---------- 0.6 kg

CHAPTER 3. INSTALL AND DATA FORMAT

1. T3805'S PANEL FIGURE

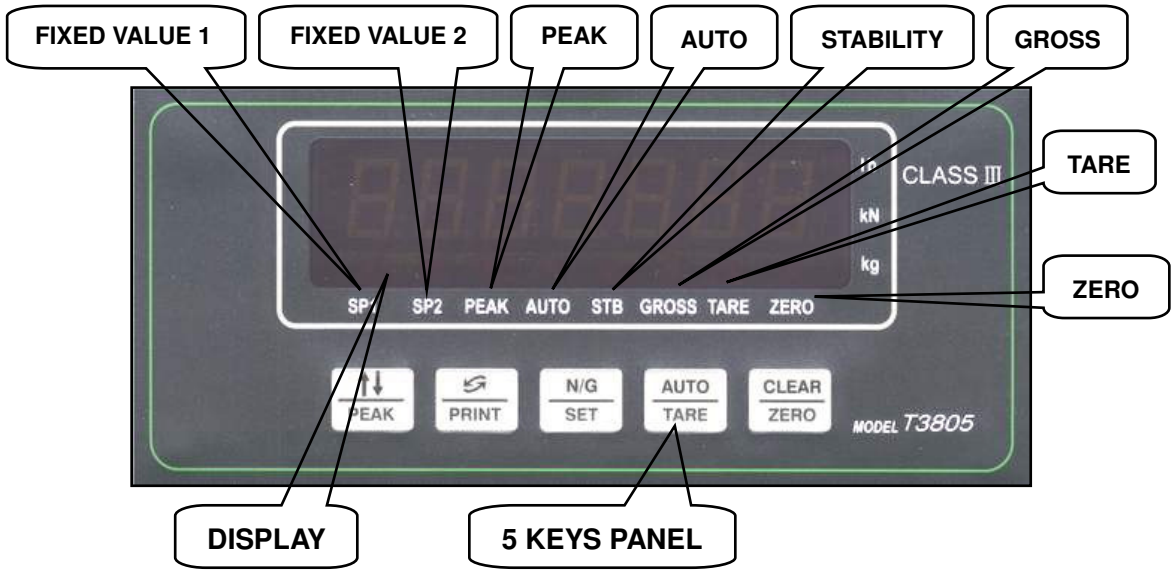


Figure 3-1

2. T3805 PCB FIGURE

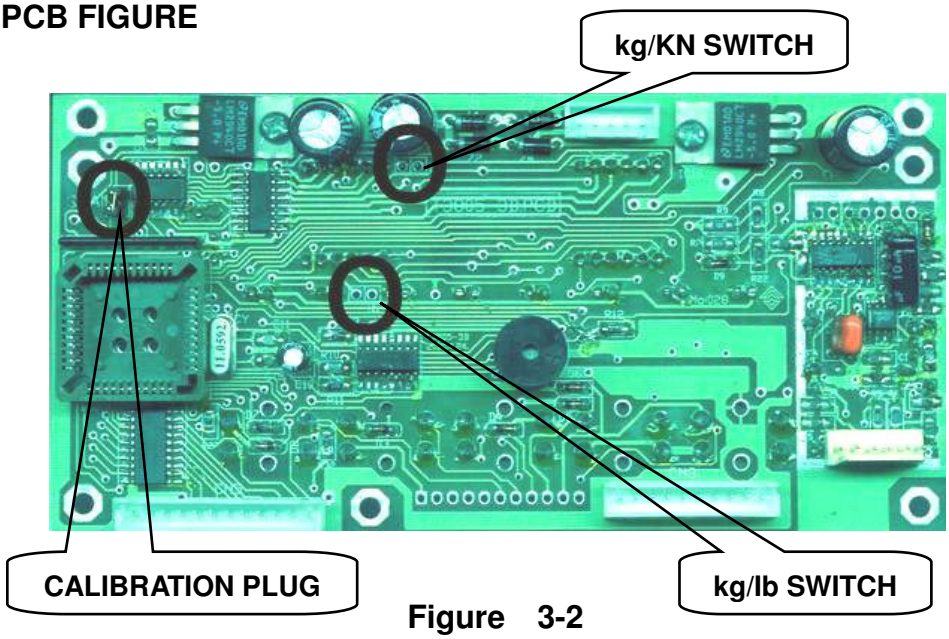


Figure 3-2

3. T3805 KEYBOARD FIGURE

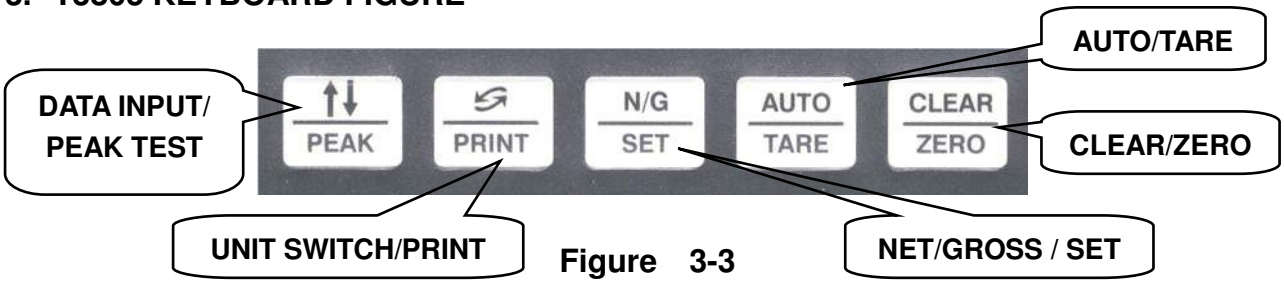


Figure 3-3

4. THE SHORT CIRCUIT PLUG

(1). The plug is the accessory of indicator.

(2). There is a method of checking indicator. For example, the indicator displays abnormally. Now turn off it, then take off the load cell plug. You should put on the short circuit plug and turn on the indicator. There are two kinds of state:

- The indicator display normally. It means that the indicator is ok.
- The indicator display abnormally. It means that the indicator has problem.

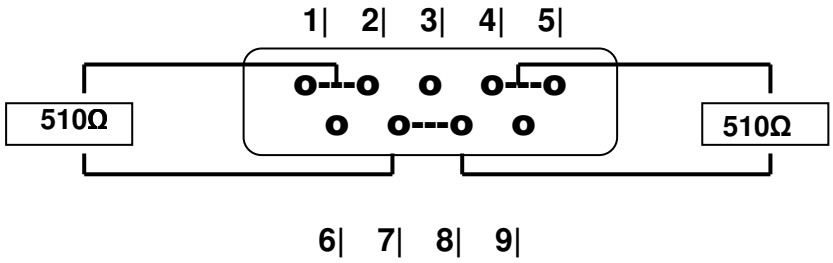


Figure 3-4

Note: Pin 1 & 2 are connected; pin 4 & 5 are connected; pin 7 & 8 are connected.
There is a resistor of 510Ω between 1, 2 and 7, 8 .
There is a resistor of 510Ω between 4, 5 and 7, 8 .

5. LOAD CELLS TO INDICATOR

(1). It is 9-pin plug.

(2). If using the shielded 4-pin cable, you must connect +E, +S and –E, –S. Otherwise it will affect the indicator.

(3). After connecting load cell, you could turn on the indicator. Otherwise it will display abnormally.

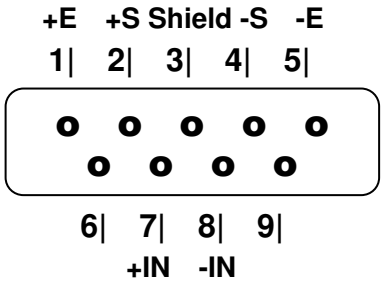


Figure 3-5

Note: +E, -E: Load cell's power
+S, -S: Load cell's feedback signal
+IN, -IN: Load cell's output signal

6. PRINTER, RS-232 INTERFACE TO INDICATOR

(1). It is 15-pin plug.

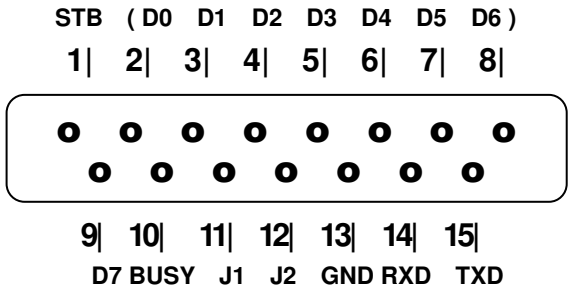


Figure 3-6

Note: STB: Printer's drive signal

D0 … D7: 8 bits data signal

BUSY: Printer's busy signal

J1: Fixed value 1, TTL level, on is "1", off is "0"

J2: Fixed value 2, TTL level, on is "1", off is "0"

GND: Ground

TXD: Transmit signal

RXD: Receive signal

7. DC POWER EXTENDED (SELECTABLE)

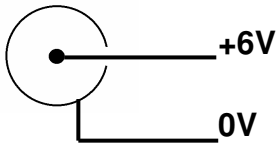


Figure 3-7

8. DATA FORMAT AND COMMUNICATION WITH EACH OTHER

Asynchronous serial communication works with Mcs-51 Micro-controller's mode 1 to be sent the data. A serial data information has 10 digit, the first original digit is "0", the 10^{th} terminal digit is "1", and the other 8 digit is data digit. There are 6 kinds of baud rate --- 300, 600, 1200, 2400, 4800, 9600. There are 4 kinds of data format. (Please check the section 13, 14, 15 in the chapter 4)

(1). 8ACS-LH: It is 8-bit standard ASCII. At first the original mark " = " (3DH) is sent, then the 7 digit weighting data, at last mark digit. The data sequence is low-bit first, the high-bit last. The "–" is "2D". The point is "2E". For example, the weight is "123.456", the data is "3D, 36, 35, 34, 2E, 33, 32, 31". If the weight is "–12.345", the data is "3D, 35, 34, 33, 2E, 32, 31, 22".

(2). 9ACS-NH: It is 9-bit standard ASCII. At first the original mark “N” (4EH) is sent, then the 8 digit weighting data. The data sequence is high-bit first, the low-bit last. For example, the weight is “123.456”. The data is “4E, 30, 31, 32, 33, 2E, 34, 35, 36”. If the weight is “–12.345”, the data is “4E, 2D, 30, 31, 32, 2E, 33, 34, 35”.

(3). 7ACS-HH: It is 7-bit standard ASCII. It has difference with “9ACS-NH”. The original mark is “H” (48H), then 6 digit weighting data. The symbol and the point aren’t sent. For example, the weight is “123.456”. The data is “48, 31, 32, 33, 34, 35, 36”.

(4). TEST-F8: It can be used in communication test with other indicator.

Multi-indicator communication data: (Double-byte repertoire)

The first is number of indicator. 26 English letters mean the indicator number. For example, “a” --- ASCII “61”, “b” --- ASCII “62”, ……“z” --- ASCII “7A” .

The second is operation code. It is capital English letter.

“Z” ---- ASCII code is “5A”, it means【CLEAR/ZERO】.

“R” ---- ASCII code is “52”, it means【TARE】.

“G” ---- ASCII code is “47”, it means sending the gross.

“T” ---- ASCII code is “54”, it means sending the tare.

“N” ---- ASCII code is “4E”, it means sending the net.

“A” ---- ASCII code is “41”, it means【AUTO】.

“P” ---- ASCII code is “50”, it means【↻/PRINT】.

“B” ---- ASCII code is “42”, it means calibration.

“S” ---- ASCII code is “53”, it means【N/G / SET】.

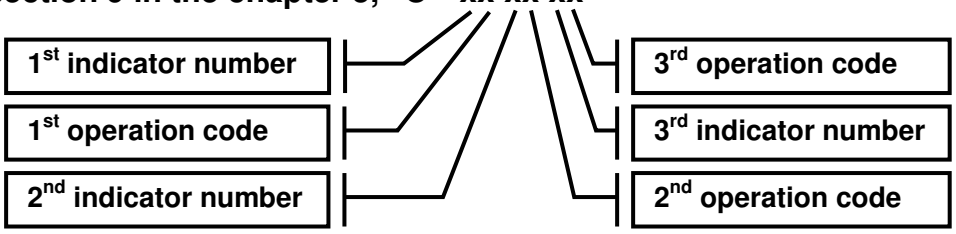
“K” ---- ASCII code is “4B”, it means【↑↓/PEAK】

You can operate the indicator by sending the code above in long distance.

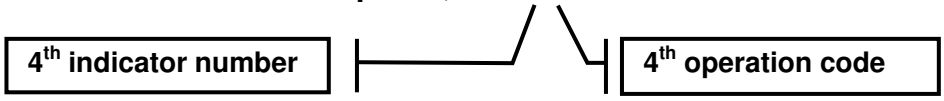
When receive the code, you can set the beep ringing or not. Please check the section 9 in chapter 5. The cargo number is set “n 88XXXX” then the beep is ringing. The cargo number is set “n 77XXXX” then the beep isn’t ringing.

On the state of “TEST-F8”, sending 8 code of ASCII, the setting as follows:

Check the section 9 in the chapter 5, “C xx xx xx”



Check the section 9 in the chapter 5, "n xx xx xx"



Indicator number: **"0"---"a"--- ASCII "61"**
"1"---"b"--- ASCII "62" **… …**
"9"---"j"--- ASCII "6A"

Operation code: **"0"---"Z"---【CLEAR/ZERO】** **"1"---"R"---【TARE】**
"2"---"G"---【Send the gross】 **"3"---"T"---【Send the tare】**
"4"---"N"---【Send the net】 **"5"---"A"---【AUTO】**
"6"---"P"---【⇄/PRINT】 **"7"---"B"---【CALIBRATION】**
"8"---"S"---【N/G / SET】 **"9"---"K"---【↑↓/PEAK】**

When the indicator number is set to "00", the transmission is continuous. When the number isn't set to "00", it send the 8-bit code by pressing【⇄/PRINT】once.

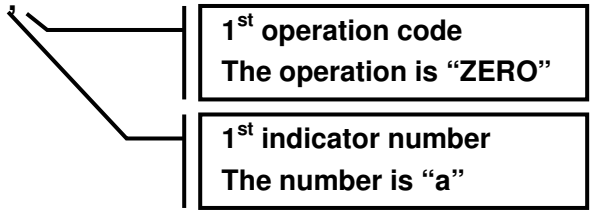
For example: There are 2 pieces of T3805 indicator. One is the master. The other is the slave. We will achieve the function of "ZERO" in long distance. The setting is as follows:

①. The master's data format is set to "TEST-F8". The baud rate of the master is set to "2400". The indicator number of master isn't set to "no. – – 00";

②. The slave's data format isn't set to "TEST-F8". The baud rate of the master is set to "2400". The indicator number of master is set to "no. – A – 61";

③. The communication pin: GND(Master)---GND(Slave), TXD(Master)---RXD(Slave)

④. The parameter of the master: The Vehicle number is set to "xxxxxx". The cargo number is set to **"00xxxx";**



⑤. Turn on the master and the slave. Pressing【⇄/PRINT】of the master once.

CHAPTER 4. CALIBRATION

There are 2 modes of calibration: Full-parameter and part-parameter. If you want to calibrate with full-parameter, you should set the cargo number to “n. 38xxxx”. Please check the section 9 in chapter 5.

STEP	OPERATION	DISPLAY	NOTICE
1	Uncap the indicator and Putting on the plug		Before calibration, you should put on the plug. The plug is on the PCB board of the indicator. (Figure 3-2)
2	Turn on the power	【- 3S- 】	When display “-3S-”, please do the step 3 at once.
3	Press【N/G / SET】		Enter the calibration. The full-parameter starts from step 4. The part-parameter starts from step 16
4	Waiting a while Press【N/G / SET】	【Idd - - xx】 … … … 【Idd - - 05】	Display the division “01, 02, 05, 10, 20, 50” circularly. e.g. : The division is “05” When it displays the division you want, please press 【N/G / SET】and confirm it
5	Waiting a while Press【N/G / SET】	【SP xxx】 … … … … … … 【SP 3000】	Display the max-capacity “500, 1000, 1500, 2000, 2500, 3000, 4000, 5000, 6000, 8000, 10000, 15000, 20000, 30000, 40000, 50000” circularly e.g. : The max-capacity is “3000” When it displays the max-capacity you want, please press【N/G / SET】and confirm it
6	Waiting a while Press【N/G / SET】	【Pt. x】 … … … 【Pt. 0.000】	Display the point position “0, 0.0, 0.00, 0.000, 0.0000” circularly e.g. : The point position is “0.000” When it displays the point position you want, please press【N/G / SET】and confirm it
7	Waiting a while Press【N/G / SET】	【Ft. –xx -x】 … … … … … … … … … 【Ft. –HL -2】	Display the filter parameter “FLt.-H-1, Ft.–HL-2, FLt.-L-3, Ft.-LL-4, Ft.-3L-5” circularly. It means “smallest(peak test), smaller(normal), big, bigger, biggest(dynamic)” e.g. : The filter parameter is “Ft.–HL-2” When it displays the filter parameter you want, please press【N/G / SET】and confirm it

STEP	OPERATION	DISPLAY	NOTICE
8	Waiting a while Press【N/G / SET】	【- 0- x】 … … … … … … 【- 0- 0.4d】	Display zero-tracking range “0d, 0.4d, 1.2d, 2.4d, 3.6d, 6.0d, 9.6d, 20d” circularly. “d” means division e.g. : The zero-tracking range is “0.4d” When it displays the zero-tracking range you want, please press【N/G / SET】and confirm it
9	Waiting a while Press【N/G / SET】	【Unt.- xx】 … … … … … … 【U.-2.2046】	Display the unit-switch “1.0、2.0、2.2046、9.8066” circularly. It means “no-switch, double, kg/lb, kg/N” e.g. : The unit-switch is “2.2046” (kg/lb) When it displays the unit-switch you want, please press【N/G / SET】and confirm it
10	Waiting a while Press【N/G / SET】	【Prt.- xxx】 … … … … … … … … … 【Prt.- 160】	Display the print-mode “Prt.-160, Prt.-161, Prt.-162, Prt.-163” circularly. It means “record, single-bill, double-bill, treble-bill” e.g. : The print-mode is “Prt.-160” (record-mode) When it displays the print-mode you want, please press【N/G / SET】and confirm it
11	Waiting a while Press【N/G / SET】	【P.Unt..-xx】 … … … … … … 【P.Unt.-Hq】	Display the print-unit “Hq, q, t, lb, n, Hn, Nn, nPA” circularly. It means “kg, g, t, lb, N, kN, mm, MPa” e.g. : The print-unit is “Hg” (kg) When it displays the print-unit you want, please press【N/G / SET】and confirm it
12	Waiting a while Press【N/G / SET】	【Uxx.xx.xx】 … … … … … … 【U00.00.00】	Display the fixed-value parameter “U.00.00.00, U.11.01.00, U.10.00.01, U.10.01.00” circularly. Please check the page 17 e.g. : The fixed-value parameter is “U.00.00.00” When it displays the fixed-value parameter you want, please press【N/G / SET】and confirm it
13	Waiting a while Press【N/G / SET】	【no.– x – x】 … … … … … … 【no. – – 00】	Display the indicator number “00, a, b …z” circularly. The “00” means successive-transmission and the “a、b…z” means responsive-transmission e.g. : The indicator number is “00” When it displays the indicator number you want, please press【N/G / SET】and confirm it
14	Waiting a while Press【N/G / SET】	【but. xxx】 … … … 【but. 2400】	Display the baud rate “300,600,1200,2400,4800,9600” circularly e.g. : The baud rate is “2400” When it displays the baud rate you want, please press【N/G / SET】and confirm it

STEP	OPERATION	DISPLAY	NOTICE
15	Waiting a while Press【N/G / SET】	【xxxx- xx】 … … … … … … 【8ASC-LH】	Display the data format “8ASC-LH, 9ASC-NH, 7ASC-HH, TEST-F8” circularly. Please check the section 8 in the chapter 3 e.g. : The data format is “8ASC-LH” When it displays the data format you want, please press【N/G / SET】and confirm it
16	Press【N/G / SET】	【-ULOAD-】 【o. xxxx】	Confirm the zero with empty scale Display the internal code of zero
17	Press【N/G / SET】 Press【N/G / SET】 Press【↑↓/PEAK】 Press【↑↓/PEAK】 Press【↑↓/PEAK】 Press【↑↓/PEAK】 Press【N/G / SET】	【 -LOAD-】 【 xxxxx】 【LOAD-in】 【L 0】 【L 2】 【L 20】 【L 25】 【L 250】 【L 255】 【L 2550】 【L 2550】	Put on the poise (the nearer to max capacity and the better) Display the internal code of the poise Input the weight. e.g. : “2550” Display “0~9” circularly and set the thousand-bit When it displays “2”, please press 【↑↓/PEAK】 and confirm the bit Display “0~9” circularly and set the hundred-bit When it displays “5”, please press 【↑↓/PEAK】 and confirm the bit Display “0~9” circularly and set the ten-bit When it displays “5”, please press 【↑↓/PEAK】 and confirm the bit Display “0~9” circularly and set the one-bit When it displays “0”, please press 【N/G / SET】 and confirm the bit
18	Take off the calibration plug. The calibration is over. The indicator can be used normally		

Note: If you don’t want to calibrate the weight but the parameter, please start from the step 1 to step 17. When do the step 17, you don’t put on the poises but press【N/G / SET】directly. The indicator displays【0】. After waiting a while, it displays【Err P.】. Now do the step 18.

CHAPTER 5. OPERATION

1. POWER ON

STEP	OPERATION	DISPLAY	NOTICE
1	Put on the load cell plug Turn on the indicator	 Display self-check	Confirm the empty scale
2		【 0.000】 【 xxxx】 【- xxxx】	The zero is normal The zero is bigger The zero is smaller

Note: Please checks the step 8 in the chapter 4 to see the zero-tracking range.

2. ZERO

STEP	OPERATION	DISPLAY	NOTICE
1	Press【CLEAR/ZERO】	【 0.000】 【 xxxx】	The indicator comes back to zero. “ZERO” is light The indicator doesn’t come back to zero.

Note: The zero range is ≤3 % of max capacity.

3. TARE AND RESUME TARE

STEP	OPERATION	DISPLAY	NOTICE
1. TARE	Press【AUTO/TARE】	【 0.000】	When the “STB” is light, you can press【TARE】
2. RESUME	Press【AUTO/TARE】	【 xxxx】	Exit the tare state and the “TARE” is off

Note: Please confirm the scale is stable, then press【TARE】.
The tare range is ≤100 % of max capacity.

4. UNIT SWITCH

STEP	OPERATION	DISPLAY	NOTICE
1	Press【N/G / SET】 Press【↻/PRINT】	【- - - - - - -】 【 xxxxx】	 Display the weight after the unit change
2	Press【N/G / SET】 Press【↻/PRINT】	【- - - - - - -】 【 xxxxx】	 Display the weight after the unit resume

Note: The unit switch between 2 kinds of unit --- “kg/double”, “kg/lb”, “kg/N”.
After power on, the default unit is “kg”.
Please check the step 9 in the chapter 4.

5. NET/GROSS DISPLAY SWITCH

STEP	OPERATION	DISPLAY	NOTICE
1	Press【N/G / SET】 Press【N/G / SET】	【- - - - - - -】 【 xxxxx】	 Display the net
2	Press【N/G / SET】 Press【N/G / SET】	【- - - - - - -】 【 xxxxx】	 Display the gross

Note: Only after the【TARE】, you can switch the display of net to the display of gross.
After power on, the display of default is the gross.

6. PEAK TEST

STEP	OPERATION	DISPLAY	NOTICE
1	Press【↑↓/PEAK】	【 xxxxx】	Start the peak test
2	Press【↑↓/PEAK】	【 xxxxx】	Exit the peak test state

Note: This function includes the positive and negative peak test.
When the zero-tracking range is set to “0d”, it is on the state of the one-off test. When the zero-tracking range isn’t set to “0d”, it can test the peak value repetitious. It means the 1st value will be replaced by the 2nd value. Please check the step 8 in the chapter 4.

7. PRINT AND PRINT FORMAT

STEP	OPERATION	DISPLAY	NOTICE
1. EMPTY	Press【⇄/PRINT】	【n. xx】 【o xx】 【o x.xx】 【 xxxx】	Print the total. Display the total times for 3 sec Display the total for 3 sec Display the total sum for 3 sec Exit this state
2. NON-EMPTY	Press【⇄/PRINT】		Print record/bill, please check the step 10 in the chapter 4
3. AUTO	Press【N/G / SET】 Press【AUTO/TARE】		“AUTO” is light Come back to ZERO---Load---“STB” light---Unload---Print and total automatically

Print format:

(1). Record mode (Prt.-160)

2001-02-18 08:18
001： 80.00kg
002： 100.00kg
003： 200.00kg

(2). Single-bill mode (Prt.-161)

Table 1

No:	0008
Date:	2001- 02- 18
Time:	08.18.28
Car.No.:	12345
Mtl.No.:	1234
Gross:	10000 kg
Tare:	2000 kg
Net:	8000 kg
Unit price	1.00
Sum	8000.00

(3). Double-bill mode (Prt.-162)

The print format is the similar as the single-bill.

(4). Treble-bill mode (Prt.-163)

The print format is the similar as the single-bill.

(5). Total print

Add：	380.00 kg
Tot：	380.00

If the sum is empty, the row of “Tot” is disappeared automatically.

8. TOTAL DISPLAY AND TOTAL CLEAR

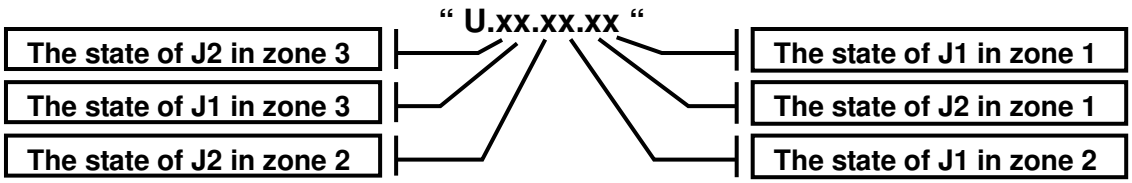
STEP	OPERATION	DISPLAY	NOTICE
1. TOTAL DISPLAY	Press【↻/PRINT】	【n. xx】	Print the total. Display the total times for 3 sec
		【o xx】	Display the total for 3 sec
		【o x.xx】	Display the total sum for 3 sec
		【 xxxx】	Exit this state
2. TOTAL CLEAR	Press【N/G / SET】 Press【CLEAR/ZERO】	【n. 0】	Clear the total. Display the total times for 3 sec
		【o 0.0】	Display the total for 3 sec
		【桁 0.00】	Display the total sum for 3 sec
		【 xxxx】	Exit this state

Note: Only when printing the total and in the state of auto-print, it displays the total.

9. PARAMETER SETTING

STEP	OPERATION	DISPLAY	NOTICE
1. DATE	Press【N/G / SET】	【- - - - - - -】	
	Press【↑↓/PEAK】	【d. x】	Input the date. e.g. : “2001.2.15”---“010215”
	Press【↑↓/PEAK】	【d. 1】	When display “1”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【d. 10】	When display “0”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【d. 102】	When display “2”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【d. 1021】	When display “1”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【d. 10215】	When display “5”, press【N/G / SET】to confirm
2. TIME		【t. x】	Input the time. e.g. : “08:20:00”---“082000”
	Press【↑↓/PEAK】	【t. 0】	When display “0”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【t. 8】	When display “8”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【t. 82】	When display “2”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【t. 820】	When display “0”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【t. 8200】	When display “0”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【t. 82000】	When display “0”, press【N/G / SET】to confirm
3. CAR NUM		【C. x】	Input the car number. e.g. : “12345”
	Press【↑↓/PEAK】	【C. 1】	When display “1”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【C. 12】	When display “2”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【C. 123】	When display “3”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【C. 1234】	When display “4”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【C. 12345】	When display “5”, press【N/G / SET】to confirm
4. **CARGO NUM**		【n. x】	Input the cargo number. e.g. : “1234”
	Press【↑↓/PEAK】	【n. 1】	When display “1”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【n. 12】	When display “2”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【n. 123】	When display “3”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【n. 1234】	When display “4”, press【N/G / SET】to confirm
5. UNIT PRICE		【n. x】	Input the unit price. e.g. : “1.00”
	Press【↑↓/PEAK】	【n. 1】	When display “1”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【n. 10】	When display “0”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【n. 100】	When display “0”, press【N/G / SET】to confirm
6. FIXED VALUE 1		【L. x】	Input the fixed value 1. e.g. : “280”
	Press【↑↓/PEAK】	【L. 2】	When display “2”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【L. 28】	When display “8”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【L. 280】	When display “0”, press【N/G / SET】to confirm
7. FIXED VALUE 2		【H. x】	Input the fixed value 2. e.g. : “750”
	Press【↑↓/PEAK】	【H. 7】	When display “7”, press【↑↓/PEAK】to confirm
	Press【↑↓/PEAK】	【H. 75】	When display “5”, press【↑↓/PEAK】to confirm
	Press【N/G / SET】	【H. 750】	When display “0”, press【N/G / SET】to confirm

Note: ⊗When setting the fixed value 1 and the fixed value 2, the meanings is as follows:
(Please check step 12 in the chapter 4 and the figure 3-6)



⊗The meanings of two-point and three-zone:

Fixed value 2 (J2)	Zone 3
	Zone 2
Fixed value 1 (J1)	
	Zone 1

For example: U.00.00.00 ------ J1 and J2 is off in all zone
U.11.01.00 ------ J1 is on in zone 2, J1 and J2 is both on in zone 3
U.10.00.01 ------ J1 is on in zone 1, J2 is on in zone 3
U.10.01.00 ------ J1 is on in zone 2, J2 is on in zone 3

10. OVERLOAD WARNING AND ERROR INFORMATION

STEP	OPERATION	DISPLAY	NOTICE
1	Beep ringing	【 OF】	Overload alarm (beyond the max capacity). Please check the step 4 in the chapter 4 and the section 9 in the chapter 5
2	Error information	【Err 0】 【Err 1】 【Err 2】 【Err 3】	Internal code of empty scale is big (Zero is big) Internal code of load is too small (capacity is big) Internal code of load is too big (capacity is small) Calibrate overflow