

MK-Di01

Digital Electronic Weighing Indicator

User Manual

Version: Mar. 2009

- Please read this manual carefully before using
- Please keep this manual properly for reference

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1 Technical parameter

Type MK-Di01-U

Digital load cell interface

Communication mode RS485
 Signal transmission distance ≤1000m
 Transmission baud rate 9600、19200 bps
 Excitation power DC12V
 Digital interface ability ≤16 digital load cells or digital modules

Display

7 digits of LED, 7 digits of status symbols

Keyboard

Number Keys 0 ~ 9
 Function keys 30 pcs (10 of 30 are combined with Number keys)

Clock

display year, month, date, hour, minute and second, leap year and leap month automatically.

Scoreboard display interface

transmission mode: Serial transmission mode , current loop and RS232
 Transmission baud rate: 600bps

Serial communication interface

transmission mode: RS232/RS485
 Baud rate: Options of 600/1200/2400/4800/9600/19200

Printing interface

With standard parallel printing interface, which can be connected with the wide line printers , such as ESPON LQ-300K+ II、ESPON LQ-300K、ESPON LQ-680K、ESPON LQ-730K、ESPON LQ-1600K (+)、KX-P1131、DS-300, etc.

D2008FP is with thermal mirco-printer, D2008FP1 is with matrix printing.

Data storage

can store 1,500 groups of vehicle numbers and tare weight, 201 groups of cargo numbers and cargo name in Chinese and English, 100 groups of customer numbers and customer names in Chinese and English, and 100 sets of figures or note information in Chinese and English, 2400 groups weighing records, 20 groups overload records.

Operating environment

Power input : AC110~220V 50~60HZ
 DC 12V
 Operating temperature: 0℃ ~ 40℃
 Storage temperature : -25℃ ~ 55℃
 Relative humidity : ≤85%RH

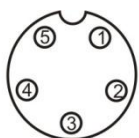
Sizes 339×110×230 mm

Weight about 3.7kg

2 Installation and Connection

2.1 The connection between indicator and digital load cell

The indicator can connect with C and E series digital load cells, the connection is shown as below:



5 cores load cell interface

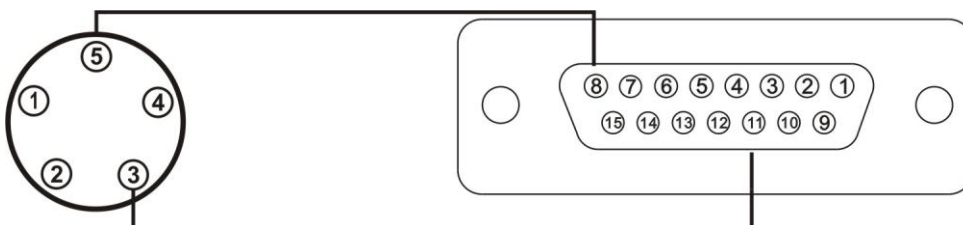
Pin	Description	C series	E series
1	Power +	Red	Red
2	Power -	Black	Black
3	Signal A (+)	White	Green
4	Signal B (-)	Green	White

digital load cell interface and description

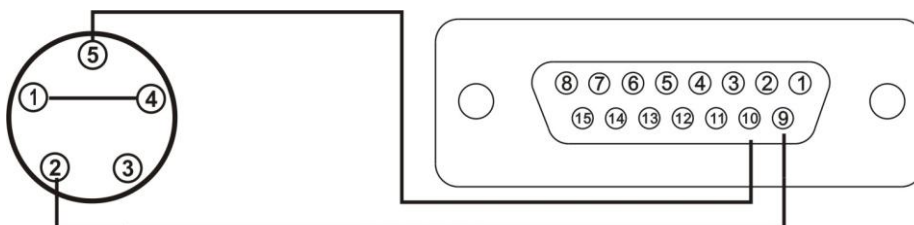
2.2 The connection between indicator and scoreboard

Connection with Keli scoreboard is shown as below:

2.2.1. RS232 connection

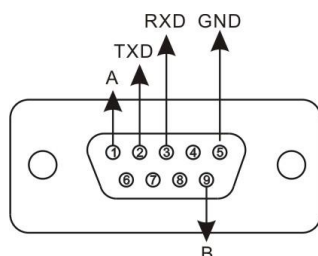


2.2.2. Current loop



2.3 The connection between indicator and computer

The indicator has two kinds of serial communication, one is RS232, the other one is RS485.



PC interface of indicator

PC interface of indicator	9 cores serial port of computer	PC interface of indicator	RS485 communication device
2	2	1 (Signal A)	Signal A
3	3	9(Signal B)	Signal B
5	5		

RS232 connection between indicator and computer
5 cores load cell interface

RS485 connection between indicator and RS485 communication device

4、 The connection between indicator and battery

Indicator itself has battery charging module. Please use 12V/7Ah battery; At converse connection, the supply loop of battery will be cut off.

3 Store and print weighing record

3.1 Store weighing record

(1) The indicator specify cargo number as 5 bits (1~99999), cargo number as 3 bits (0~200), customer number as 2 bits (0~99), remarks number as 2 bits (0~99).

(2) It can save max. 2400 weighing records, automatically delete earliest record when saved records are full

(3) It can save max. 1500 vehicle tare, if vehicle number is more than 1500 pieces, the indicator will display **【Err 10】**, it can delete a certain vehicle number or all record by the methods specified in section III

(4) Each cargo No., customer No., remarks No. can corresponds 10 ASCII code

(5) Save a complete set of record, and also print it out at the same time (if print setting is valid)

(6) Three ways of data save as below:

① Direct one time weighing save (press **【Save 1】**): that is, weighing only one time, then save current data as one set record and print it out

② Preset or call the known tare when weighing, one time (press **【Save 2】**) save compose a complete set record; or weigh not vehicle but the cargo only (vehicle No. is 00000 or not use vehicle No.), one time (press **【Save 2】**) save compose a complete set record.

③ Twice weighing (press **【Save 2】**) save: save empty vehicle first (press **【Save 2】**) and then save full vehicle (press **【Save 2】**), or save full vehicle first (press **【Save 2】**) and then save empty vehicle (press **【Save 2】**), that is, two times save just compose a complete set record. In order to automatically identify and distinguish above ② and ③ save conditions when pressing **【Save 2】** to save data, make the following agreement:

▲ **Vehicle No. must be any number between 00001 and 99999**, that is , 00000 can not be real vehicle No. If vehicle No. is 00000, it meas that the weighing object is not a vehicle , it is just the cargo only. Then indicator will save as ②

▲ If identifier of tare is bright on indicator, then tare is known, so one time save can compose a complete set record

▲ If vehicle No. is any number with 5 bits except for 00000, and identifier of tare on indicator is not bright (gross weight status), then two times save is necessary for composing a complete set record

▲ If not use vehicle No., it means not weighing vehicle, one time save can compose a complete set record

(7) Storage operation

The example of storage operation is shown as appendix A.

(8) Can not store when the data is unstable, or gross weight is equal or less than 0, or net weight is equal or less than 0, or the condition of return-to-zero is not met. Otherwise the indicator will display **【Err 19】** to remind operator.

(9) Automatic storage and printing:

① Refer to section of print setup for the setting of automatic storage and printing.

② There isn't two-time storage during automatic storage and printing.

③ During automatic storage, the vehicle number and cargo number stored are those numbers which are set before storage.

④ Three conditions during automatic storage of tare value:

a) When the tare indication light of the indicator is on, the tare value of the object weighed currently will be saved into this group of record.

b) When the tare indication light of the indicator is off, the indicator will search for the tare value under this vehicle number and save it into this group of record.

c) When the tare indication light is off and there isn't tare value under the vehicle number, the indicator will save 0 as the tare value into this group of record.

3.2. Input method of tare storage

The indicator can store 1500 tare values of vehicle number. There are 3 methods to input.

1. Input tare with number key: (*: original value)

Step	Operation	Display	Explanation
1	Press 【V.N】	Under weighing status	
2	Input vehicle number Press 【ENTER】	o ***** o 35790	Input vehicle number. For example: 35790.
3	Input tare value Press 【ENTER】	P ***** P 01000	Input tare weight. For example: 1000(kg).
4		Return to weighing status	End

2. Save tare by weighing:

Under the weighing status, place the empty vehicle on the scale. Wait until the scale is stable, press **【V.N】** and input the vehicle number, and then press **【PRESET】** .

3. While saving a group of weighing record, if there isn't tare weight of the vehicle number in the internal memory, then the light load value of this group of record will be saved into the internal memory as the memory tare of the vehicle.

3.3. Printing of weighing record

1. Printing parameter must be set correctly before printing. (Refer to the part of printing parameter setting of technical manual)

2. The storing and printing of the indicator are simultaneous. At the same time when a group of complete record is stored with **【SAVE1】** or **【SAVE2】** , it will be printed out. (If the printing setup is effective, namely the model of the printer is non-zero and printing while storing is selected)

3. If the weighing record is not printed successfully because of some reason (ex.: printer fault), after the fault is eliminated, press **【REPRINT】** and print the record stored currently.

4. In the end of a period of weighing, may press **【A.P】** to print out the accumulated value.

5. If press **【SAVE2】** and use the two-time storage (loaded after empty, or empty after loaded), during the first storing, because the record is not completed, the indicator displays **【LoAd】** for 1.5 seconds but does not print. However, if press **【REPRINT】** at this time, the incomplete record can still be printed out. The printing result is as below:

① Serial number is blank;

② Gross weight and net weight are all 0;

③ Tare weight is the weight value displayed currently.

- ★For printing format refers to appendix 2.
- ★For printing example refers to appendix 5.

3.4. Statistical form printing

1. The forms printing function is quite abundant. It can print the general form and the detail forms under various kind of conditions, and it can also print varies of classified statistical forms.(Micro-print does not support the statistical form , however, it can print the contents in 70、 8* and 9* in it.)

2. Operation

a) Press **【FORM】** and the indicator display **Pb 00** , then select the printing form type and press **【ENTER】** . Enter the limit conditions such as date, vehile no. etc. according to the prompton. After all is entered, the indicator begins printing.

Form 3-2-4

Parameter or Function Code	Paremeter or Function Type
00	General Form
01	Detail Form in Certain Date
02	Detail Form during Certain Period
03	Detail Form for Certain Vehile No.
04	Detail Form for Certain Cargo No.
05	Detail Form for Certain Customer
06	Detail Form for Certain Remarks
09	Comprehensive Condition (include different combinations among the Date, Period, Vehile No., Cargo No. Customer, Remarks) Detail Form
10	General Form for the User-defined Format (Note 3-2-8)
11	General Form in Certain Date under User-defined Format
12	General Form during Certain Period under User-defined Format
13	General Form for Certain Vehile No. under User-defined Format
14	General Form for Certain Cargo No. under User-defined Format
15	General Form for Certain Customer under User-defined Format
16	General Form for Certain Remarks under User-defined Format
19	Comprehensive Condition General Form under User-defined Format
20	Total Vehicle Nos. Statistic Form
21	Total Cargo Nos. Statistic Form
22	Total Customers Statistic Form
23	Total Remarks Statistic Form
30	Vehicle Nos. Statistic Form in Certain Date
31	Cargo Nos. Statistic Form in Certain date

32	Customers Statistic Form in Certain date
33	Remarks Statistic Form in Certain date
40	Vehicle Nos. Statistic Form during Certain Period
41	Cargo Nos. Statistic Form during Certain Period
42	Customers Statistic Form during Certain Period
43	Remarks Statistic Form during Certain Period
70	Print Overload Record
80	Print Calibration Parameter
81	Print Communication Parameter
82	Print Printing Parameter
89	Print All Parameters
90	Print Cargo No. Chinese Comparison Form
91	Print Customer Chinese Comparison Form
92	Print Remarks Chinese Comparison Form
93	Print Chinese Company Name
99	Print all Chinese Comparison Form and Chinese Company Name

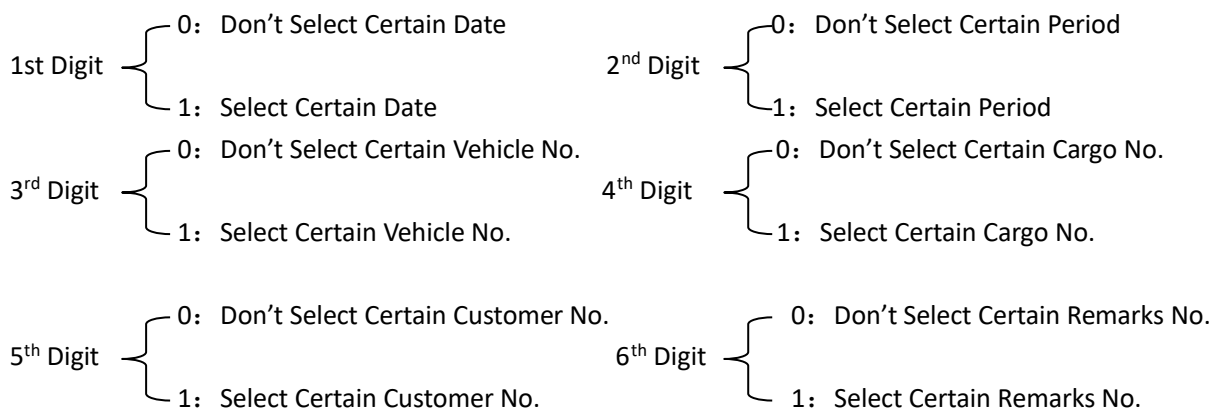
Note 3-2-8: The printing format for the user defined detail form is the same as the user defined recording format. For details please refer to the section V in this chapter

b) Illustration for the form printing

a. Comprehensive Condition Detail Form

Steps	Operation	Display	Explanation
1	Press 【Form】 Press 【9】 Press 【Enter】	Pb 00 Pb 09	Enter“9”print , Comprehensive condition detail form under fixed format
2	Press 【111111】 Press 【Enter】	E000000 E111111	Select the required condition (Note 3-2-9) Such as 111111
3	Press 【40101】 Press 【Enter】	d**.**.** d04.01.01	Enter the beginning date for a date or a period Such as 04.01.01
4	Press 【40201】 Press 【Enter】	A**.**.** A04.02.01	Enter the ending date for a period Such as 04.02.01
5	Press 【1234】 Press 【Enter】	o ***** o 01234	Enter vehicle no. Such as 01234
6	Press 【123】 Press 【Enter】	Hn *** Hn 123	Enter cargo no. Such as 123
7	Press 【45】 Press 【Enter】	cn ** cn 45	Enter customer no. Such as 45
8	Press 【67】 Press 【Enter】	bn ** bn 67	Enter remarks no. Such as 67
9		Prnt	Begin printing the form. Back to the weighing status after printing

Note 3-2-9: Comprehensive condition parameter(E Parameter) have 6 digits. From left to right is digit 1 to digit 6 respectively. The meaning for each digit are as follows:



If certain condition is not selected then the steps to enter under this condition will be jumped over; if select both the date and period as the condition, the period will be the condition.

b. Vehicle Nos. Statistic Form during Certain Period

Steps	Operation	Display	Explanation
1	Press 【FORM】 Press 【40】 Press 【Enter】	Pb 00 Pb 40	Enter "40" Print Vehicle Nos. Statistic Form during Certain Period
2	Press 【40101】 Press 【Enter】	d**.**.**.* d04.01.01	Enter the beginning date for a period Such as 04.01.01
3	Press 【40201】 Press 【Enter】	A**.**.**.* A04.02.01	Enter the ending date for a period Such as 04.02.01
4		Prnt	Begin printing the form. Back to the weighing status after printing

c. Printing of Parameter and Information Comparison Form

Steps	Operation	Display	Explanation
1	Press 【FORM】 Press 【80】 Press 【Enter】	Pb 00 Pb 80	Enter printing content choice: 80: Print calibration parameter 81: Print communication parameter 82: Print printing parameter 90: Print comparison form for cargo no. 91: Print comparison form for customer information 92: Print comparison form for remarks information 93: Print the set company name 99: Print all comparison form and the setted company names. Such as 80
		Prnt	Begin to print the selected contents. Back to the weighing status after printing

3.5 Inquiry weighing record

1. The Operation Method of Inquiry:

Press **【Check】** to check the memory contents in the indicator by different modes. Operation method are as follows:

Print **【Check】** under weighing status (If check encrypt is selected, the indicator will display **【c 000000】** to prompt to input the password. After the password is passed) the indicator will display **【rEAd 1】** to prompt to enter the inquiry mode.

rEAd 1	Check by Date	rEAd 2	Check by Vehicle No.
rEAd 3	Check by Cargo No.	rEAd 4	Check by Customer No.
rEAd 5	Check by Remarks No.	rEAd 6	Check Vehicle No.

Press **【Enter】** after enter the inquiry mode and the indicator will prompt to enter the required conditions for the inquiry such as date, vehicle no., cargo no., customer no., remarks no. etc. After that it will display the required records one by one. The inquiry condition will not display in the records (For example, if inquiry by vehicle no., then the vehicle no. will not be displayed in the records).

In the inquiry operation, if press **【Formfeed/←】** or **【Test/→】** when display one piece of record, it can jump over his record and display the nearby record in front or behind.

2. Example for Inquiry Operation:

Example: Inquiry according to the date, i.e, inquiry the complete records in certain date

Step	Operation	Display	Explanation
1	Under Weighing Status Press 【Check】 Press 【888888】 Press 【Enter】	c000000 c-----	If the "check encrypt" is not selected, press 【Check】 and jump to step 2
2	Press 【【1】】 Press 【Enter】	rEAd 1	Select the contents that want to check Such as "1", inquiry accoring to the date
3	Press 【【090302】】 Press 【Enter】	d**.**.** d09.03.02	Select the date that you want to check Such as 09- 03-02 Then it will display all of the weighing records in 2009- 03-02
4	Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】	no 0001 t**.**.** o ***** Hn *** A ***** t ***** bFL ** cn ** bn **	First group record Time (Hour、Min.、 Sec.) Vehicle No. Cargo No. Gross Weight Tare Weight Deduct Rate Customer No. Remarks No. } First Record
	Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】	no 0002 t**.**.** o ***** Hn ***	Second group record Time (Hour、Min.、 Sec.) Vehicle No. Cargo No.

5	Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】 Press 【Enter】	A ***** t ***** bFL** cn ** bn **	Gross Weight Tare Weight Deduct Rate Customer No. Remarks No.
6	Press 【Formfeed/←】	no 0003	Third group record
7	Press 【【Test/→】	no 0002	Back to second record
8	Press 【Enter】	no 0002 t**.**.**	go to the third group record directly
.....
9	Press 【Enter】	bn ** End about1~2 seconds	The remarks number for the no. n group Check ending
10		Weighing status	Back to weighing status

Example: Inquire Vehicle No.

Step	Operation	Display	Explanation
1	Under Weighing Status Press 【Check】 Press 【888888】 Press 【Enter】	c000000 c- - - - -	If the “check encrypt” is not selected, press 【Check】 and jump to step 2
2	Press 【6】 Press 【Check】	rEAd 1 rEAd 6	Select 6 means check vehicle no.
3	Press 【Check】 Press 【Check】	no 001 o *****	The first Vehicle No. If enter number like 【00485】 , then display p***** , press 【check/enter】 back to weighing status
4	Press 【Check】 Press 【Check】	p*****	The first vehicle No. tare weight
5	Press 【Check】 Press 【Check】	no 002 o *****	The second vehicle no.
.....
6	Press 【Check】 Press 【Check】	no *** o *****	The last vehicle no.
7	Press 【Check】 Press 【Check】	p*****	The last vehicle no. tare weight

8		End about1~2 seconds	
9		Back to weighing status	

3.6 Delete weighing record

- The indicator allow the following methods of cleaning record:
 - Method ①: clean all records (includes all vehicle no. and stored tare)
 - Method ②: clean a certain vehicle no. and its tare, related all weighing records
 - Method ③: clean the last stored weighing record
 - Method ④: clean all weighing records in a certain day
 - Method ⑤: clean all weighing records of a certain vehicle no. (but keep the vehicle no. and its stored tare)
 - Method ⑥: clean all weighing records of a certain cargo no.
 - Method ⑦: clean all weighing records of a certain customer no.
 - Method ⑧: clean all weighing record of a certain remarks no.
 - Method ⑨: clean any one weighing record in indicator
 - Indicator will display **SUrE 0** in any method of cleaning record, and ask operator to select yes or no., when **【Sure】**= a number which is not 0, and then press **【Enter】** key to confirm. If want to deny, when **【Sure】**=0, and then press **【Enter】** or press **【Weigh】** to exit.
 - Operating method:
 - Under weighing status, press **【Clean】** (if select record delete encrypt, indicator display **c000000** first to prompt to enter delete password, after the password is correct), indicator display **SUrE 0**, press **【1】** and then press **【Enter】** to clean all weighing records. (Method ①)
 - Under weighing status, press **【V.N】** indicator display **o *******, input vehicle no., then press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean stored tare of this vehicle no. and all related weighing record (Method ②)
 - Under weighing status, press **【Clean】** (if select record delete encrypt, then need to input correct password) indicator display **SUrE 0**, press **【9】** and then press **【Enter】** to clean the last stored record (Method ③)。
 - Under weighing status, press **【Check】** (if select record delete encrypt, then need to input correct password) indicator display **rEAd 1**, press **【Enter】** indicator display **d**.**.**.**.**, input the date which shall be deleted, press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all weighing record of a certain day (Method ④)。**
 - Under weighing status, press **【Check】** (if select record delete encrypt, then need to input correct password) indicator display **rEAd 1**, press **【2】** and then press **【Enter】** indicator display **o *******, input vehicle no. and then press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all weighing records of this vehicle no., but keep stored tare (Method ⑤)。
 - Under weighing status, press **【Check】** (if select record delete encrypt, then need to input correct password) Indicator **rEAd 1**, press **【3】** and press **【Eneter】** indicator display **Hn *****, input cargo no. and then press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all weighing records of this cargo no. (Method ⑥)
 - Under weighing status, press **【Check】** (if select record delete encrypt, then need to input correct password) indicator display **rEAd 1**, press **【4】** and press **【Enter】** indicator display **cn *****, input customer no. and then press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all weighing records of this customer no. (Method ⑦)。
 - Under weighing status, press **【Check】** (if select record delete encrypt, then need to input correct password) indicator display **rEAd 1**, press **【5】** and then press **【Enter】** indicator display **bn *****, input remarkds no. and then press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all weighing record of this remarks no. (Method ⑧)。
 - During checking process, display a record, and press **【Clean】** (if select record delete encrypt, then need to input correct password) to clean all checking records (Method ⑨)。
- ▲ !** All datas which are cleaned can not be recover, so the operation must be careful to avoid of missing data because of wrong operation.

3.7. Inquiring print

The indicator can print out the record which is being inquired, the operation is as below: during inquiring and displaying any one record , press **【Reprint】** to print out this inquired record.

Appendix A: the example of printing operation

If select not input vehicle no. ,cargo no. ,customer no. ,remarks no. in printing parameters, when store printing operating, indicator will skip related steps, and at the same time, use the vehicle no. , cargo no., customer no., remarks no. etc default data stored in memory unit of current indicator to store. If select not use vehicle no., cargo no., customer no., remarks no. when storing. Then indicator also skips related steps during store printing operation and does not store and print related terms. (for details, please refer to the setting of No. 6 section of No. 6 Chapter in technical manual)

1、 One time manual preset tare and print weight bill

Step	Status	Operation	Display	Explanation
1	Vehicle on scale	press 【Preset】	P00.0000	Prompt to input tare value
2	Input tare value	Example: input 【1000】 press 【Enter】	P01.0000	
3			- 1000	Display the gross weight /net weight on scale, tare indication lights. Remarks: At the moment, the indicator switch to display net weight status (press 【G/N】 to switch display status)
4	Wait stability	press 【Save 1】 or press 【Save 2】	o *****	Display original vehicle no. . prompt user to input new vehicle no. . Remarks: If user select not use vehicle no. in storing setting or select not input vehicle no. in printing control indicator (refere to Chapter 3 《printing parameter setting》) , then this step does not display original vehicle no. and prompt to input new vehicle no., and it enter into step 6 directly
5	Input vehicle no.	Example: input 【00123】 press 【Enter】	o 00123	
6			Hn ***	Display original cargo no. . prompt user to input new cargo no. . Remarks: If user select not use cargo no. in storing setting or select not input cargo no. in printing control indicator (refere to Chapter 3 《printing parameter setting》) , then do not display original cargo no. and prompt to input new cargo no., and it enter into step 8 directly
7	Input cargo no.	Example:input 【001】 press 【Enter】	Hn 001	
8			cn **	Display original customer no. . prompt user to input new customer no. . Remarks: If user select not use customer in storing setting or select not input customer in printing control indicator (refere to Chapter 3 《printing parameter setting》) , then do not display original customer and prompt to input new customer , and it enter into step 10 directly
9	Input customer no.	Example: input 【11】	cn 11	

		press 【Enter】		
10			bn **	Display original remarks. prompt user to input newremarks. Remarks: If user select not use remarks in storing setting or select not input remarks in printing control indicator (refere to Chapter 3 《printing parameter setting》), then do not display original remarks and prompt to input new remarks , and it enter into step 12 directly
11	Input remarks	Example 【05】 press 【Enter】	bn 05	
			Prnt	Print weight bill

2、 One time manual print weight bill

Step	Status	Operation	Display	Explanation
1	Cargo on scale , and wait for stability	press 【Save 1】	o ****	Display original vehicle no., prompt user to input new vehicle no.
2	Input vehicle no.	input 【00123】 press 【Enter】	o 00123	In the step, if input vehicle no. as“00000”, “0”vehicle no. means the weighed thing is cargo, and then press 【Save 2】
3			Hn **	Display original cargo no. and prompt toinput new cargo no.
4	Input cargo no.	Example: input 【011】 press 【Enter】	Hn 011	
5			cn **	Display original customer no. and prompt to input new customer no.
6	Input customer no.	Example: input 【11】 press 【Enter】	cn 11	
7			bn **	Display original remarks and prompt new remarks
8	Input remarks	Example: input 【05】 press 【Enter】	bn 05	
9			Prnt	Print weight bill

3、 Twice wighing print weight bill (that is empty vehicle first and then heavy vehicle or heavy vehicle first and then empty vehicle, here take an example for this former)

Step	Status	Operation	Display	Explanation
1	Empty vicleon scale and wait for stability	Press 【Save 2】	o *****	Display original vehicle no., prompt user to input new vehicle
2	Input vehicle no.	Input 【00123】 Press 【Enter】	o 00123	If new vehicle and original vehicle no. are same, then no need to input new vehicle.
3			Hn ***	Display original cargo no. and prompt new cargo no.
4	Input cargo no.	Example: input 【011】 press 【Enter】	Hn 011	
5			cn **	Display original customer and prompt

				new customer no.
6	Input customer no.	Example: input 【11】 press 【Enter】	cn 11	
7			bn **	Display original remarks and prompt user to input new remarks.
8	Input remarks	Example: input 【05】 press 【Enter】	bn 05	
9			LoAd	Back to weighing status after 1.5 seconds
10	Heavy vehicle on scale and wait for stability	Press 【Save 2】 Press 【Enter】	o *****	Display original vehicle no. and prompt user to input the vehicle which was input in step 2
11		Press 【Enter】	Hn ***	Display original cargo no. and prompt user to input the cargo no. which was input in step 4
12		Press 【Enter】	cn **	Display original customer no. and prompt the customer no. which was input in step 6
13		Press 【Enter】	Bn **	Display original remarks and prompt the remarks which was input in step 8
14			Prnt	Print weight bill

4 Print weight bill automatically

Step	Status	Operation	Display	Explanation
1		Press 【Enter】	PSt 00	Prompt user to select setting parameter (refer to the parameter setting part of Chapter 3)
2	Select print parameter setting	Input 【2】 press 【Enter】	PSt 02	
3		Press 【Enter】	P2 00	Prompt user to select print parameter setting (refer to the print parameter setting part of Chapter)
4			AUto 0	Display original set value of automatic print setting
5	Select auto-print	Input 【1】 Press 【Enter】	AUto 1	refer to the print parameter setting part of Chapter
6			tyPE *	Prompt to select printer (note: if want to do all printing operation, then the parameter can be set as zero)
7	Printer is selected	Press 【Weigh】	*****	Back to weighing status
8		Press 【Preset】	P000.000	Prompt to input tare value
9	Input tare weight	Example 【1000】 Press 【Enter】	P001.000	
10			*****	Display gross weight/ net weight
11	Heavy vehicle on scale and wait for stability		*****	Display gross weight/net weight
12			Prnt	Print weight bill automatically

5, Recall tare according to vehicle no. and print weight bill

Step	Status	Operation	Display	Explanation
	Vehicle no. tare exist			

1	Heavy vehicle on scale and wait for stability	Press 【V.N】	o *****	Display original vehicle no. and prompt to input new vehicle no.
2	Input the vehicle no.whose tare will be recalled	Example: input 【00123】 press 【Enter】	o 00123	If same as original one, then no need to input
3		Press 【Tare】	*****	Deduct stored tare to get net weight
4		Press 【Save 1】 or 【Save 2】 press Enter】	o *****	Required vehicle no.
5			Hn ***	Display original cargo no. and prompt new cargo no.
6	Input new cargo no.	Example: input 【011】 press 【Enter】	Hn 011	Input new cargo no.
7			cn **	Display original customer no. and prompt new customer no.
8	Input customer no	Example: input 【11】 press 【Enter】	cn 11	
9			bn **	Display original remarks and prompt new remarks
10	Input remarks	Example: input 【05】 press 【Enter】	bn 05	
11			Prnt	Print weight bill

Appendix B: Examples of breakdown and statistic form

Breakdown (complete)

No.	Date	Time	Vehicle No.	Cargo No.	G.W. (t)	Tare (t)	N.W. (t)	Customer	Remarks	
0001	05	20: 06	00001	gas	2.003	1.000	1.003	FAS.Co	Mr. Zhang	
0002	05	20: 21	00123	coal	1.000	1.000	0.000	NB company	Mr.Zhang	
0003	05	20: 41	00001	orange	1.000	0.100	0.900	FAS.Co	Mr. Wang	
0004	05	20: 44	00001	orange	1.000	0.100	0.900	FAS.Co	Mr. Wang	
0005	05	20: 45	00001	R3 steel	1.000	0.100	0.900	FAS.Co	Mr. Zhao	
0006	05	20: 45	00002	R3 steel	1.000	0.100	0.900	FAS.Co	Mr. Zhao	
Total:					G.W.:		7.003 t	N.W.:		4.603

Breakdown (customer)

No.	Date	Time	Vehicle No.	Cargo No.	G.W. (t)	Tare (t)	N.W.(t)	Customer	Remarks
0001	05	20: 21	00123	coal	1.000	1.000	0.000	NB company	Mr. Zhang

Statistic form 1 as vehicle no.

No.	Vehicle No.	Times	G.W.(t)	Total G.W. (t)	Total N.W.(t)
0001	00001	1.000	0004	5.003	3.703
0002	00123	1.000	0001	1.000	0.000
0003	00002	0.100	0001	1.000	0.900

Statistic form 2 as cargo no.

No.	Cargo No.	Times	Total G.W.(t)	Total N.W. (t)
0001	Coal	0001	1.000	0.000

0002	Orange	0002	2.000	1.800
0003	R3 steel	0002	2.000	1.800
0004	gas	0001	2.003	1.003

Stastic form 1 as remarks 3(04-03-05.04-03-05)

No.	Remarks	Times	Total gross weight (t)	Total net weight (t)
0001	Mr. Zhang	0002	3.003	1.003
0002	Mr. Wang	0002	2.000	1.800
0003	Mr. Zhao	0002	2.000	1.800