XK3118K9-R

WEIGHING INDICATOR
USER MANUAL

JAN. 2011

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

INDICATOR USING NOTES

▲ The load cell and indicator should be reliably connected. The shield cable of load cell should be reliably grounded.

▲ All of the wire connections are not allowed to plug in or out when the indicator is in the electrify status to avoid the static electricity damaging the indicator or load cells.

▲ Load cell and indicator are static sensitive devices， so static-proof measures should be taken

▲ In the season of thunder, credible thunder-proof measures should be taken, in order to avoid devices' damage and operators' physical safety.

▲ Do not use in the areas of flammable or explosive gases, and pressure vessel.

▲ The indicator and load cells should be far away from strong electric field, magnetic field,

seriously corrosive materials, and flammable & explosive materials.

▲ Do not use strong solvent (such as：benzene、nitryl oils) to clean the shell

▲ Do not fill in any liquids or electric granule into the system, so as to avoid device damage or electric shock to the operators.

▲ It is not allowed to unlock the lead seal without any authorization of technical department. Calibration can not be done before opening lead seal.

☆ Accumulator is consumption goods，so it is beyond "Three Guarantees for Product Quality"(repair; replacement and refund)

☆ Fully charge the indicator before use, in order to extend service life.

☆ If it is not used for a long time, charge for 20 hours every 2 months.

☆ Care should be taken during movement and assembly. Avoid strong vibration or impact to avoid short circuit in the accumulator and further damage.

◆ The indicator should be placed flatly and not be in the straight sunshine for clear indication and long-term service life.

◆ The indicator should not be placed in a vibrating area full of dust, and not in a sloppy environment.

◆ Before connecting or disconnecting indicator and peripheral equipment, powder supply of the indicator and other devices should be firstly switched off.

◆ Regulations about external connection in the manual should be strictly observed. It is not allowed change the connection at random.

◆ It is not allowed to open the indicator, or we do not guarantee to repair. Nonprofessional factory should no repair to avoid any possible more serious damage.

◆ If not man-made problem happens within one year after the date of sale under regular service condition. Please send the troubled indicator and guarantee card (the serial number should be coincident) to the special repair shop or the supplier.

◆ If exceed the guarantee period or man-made or other accident problem, the supplier will charge to repair

Note: the printing version maybe a little different from the real products due to new function improvement, please contact our company for the latest E-Version

Dear User, Thank you very much to choose Keli products. Please read the user manual carefully before use

Our company reserve the rights to amend the manual.

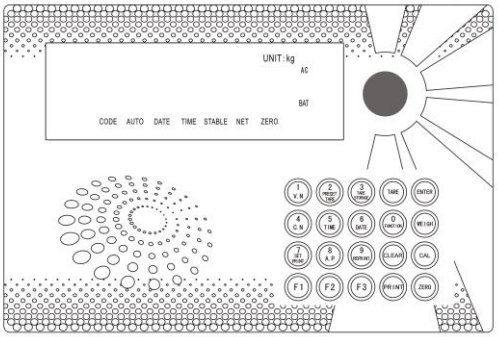
1) Technical Parameter

Execute Standard： GB/T 7724-2008 n=3000
Accuracy Class： (III) pi =0.5
Input Sensitivity： ≥1.5uV/e
A/D Conversion Mode： adopt Δ－Σ technology, 24bit
Load Cell Bridge Voltage： DC +5V, 1 to 12pcs 350Ω resistance stain gauge load cell can be connected.
Load Cell Connection Mode：6 wires (long distance compensation, compensation distance ≤50 meters)
Display： 7 units LED, 7 state indicate lights, 3 power indicate lights，1AC indicate light
Clock：Display year/moth/date, hour/minute/second, auto leap year, leap month. No effect by power-off.
Remote display port： current loop/RS232 output，bound rate: 600bps transmission distance ≤30meters
Serial communication port:
Transmission Mode：RS232，Optional RS485 Transmission Distance：RS232≤30meters（RS485≤1200meters）
Bound Rate： 600/1200/2400/4800/9600 Optional
Print port： standard parallel output port, can connect with TpuP16 mini-printer(English), KX－P1121,KX－P1131,LQ300K＋Ⅱ,LQ1600K, TM800,LQ-680K,DS-300 and LQ-730K/630K/635K etc.
Data storage ：（can be customized）
Vehicle No. and Tare：≤200pcs Cargo No.：≤100pcs Weighing Record：≤500 groups
Power Supply：
AC：AC110~220V，50~60Hz Accessorial power supply：Outside connect with 6V/10Ah maintenance-free lead-acid battery. Can be charged by indicator
Operation Environment
Working Temperature：0℃～40℃ Working Humidity：≤85％（RH）No condensation
Storage Environment：
Storage Temperature：－20℃～60℃ Storage Humidity：≤95％（RH）No condensation
Size (mm)： 330 ×220 ×185
Net Weight(Kg)： About 1.5

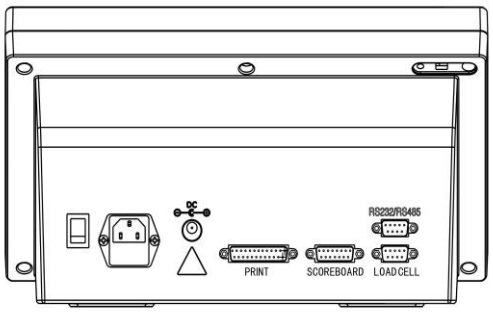
2）Installation

2.1 Indicator layout

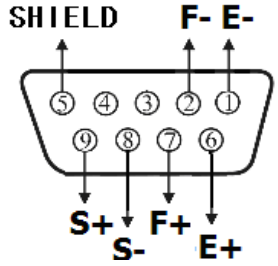
XK3118K9-19 Front Panel layout



Back Side layout



2.2 Connection between load cell and indicator



Instruction		
No.	Description	Code
1	load cell E-	E-
2	load cell F-	F-
6	load cell E+	E+
7	load cell F+	F+
8	load cell S-	S-
9	load cell S+	S+
5	SHIELD	SHIELD

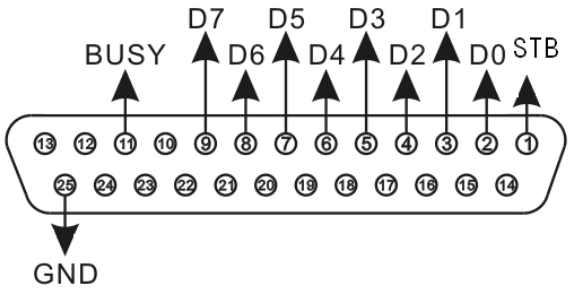
Short circuit connects pin ⑥with pin ⑦, pin ① with pin ② when connected to load cell with 4 wires!!!!!!

▲ Load cell connect with indicator must be reliable; shield wire of load cell must be connected to ground reliably.

▲ Load cell and indicator is static sensitive device, taking measures to prevent from static power when using.

▲ During the thunder storm season, proper lightning protection should be taken to ensure the operator and the weighing device safety.

2.3 Connection to Printer



Instruction		
No.	Description	Code
1	STB	STB
2	8 digits parallel data	D0
3		D1
4		D2
5		D3
6		D4
7		D5
8		D6
9		D7
11	“Busy” signal	BUSY
25	Connect to ground	GND

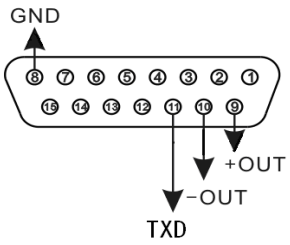
Printing Notice:

Printing Function can only be used after correct set-up；Connection between the indicator and printer must be correct. Special printer cable is required;

Due to various printer, and different characteristics, they may not be the same in the performance. Please select recommended printer.

Printer must connect to ground reliably, otherwise it may interfere indicator working or damage indicator and printer.

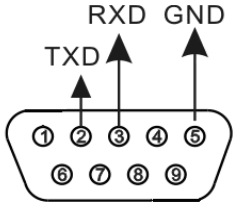
2.4 Connection to Remote Display



Instruction		
No.	Description	Code
8	Connect to ground	GND
9	Current loop+ (input)	+OUT
10	Current loop- (output)	-OUT
11	RS232 for remote display	TX

Indicator remote output cable and screen display must be connected correctly, if incorrect connection, it will damage printer output port or screen display input port, maybe even damage printer and screen display. Special match cable is required.

2.5 Connection to Serial Communication Port

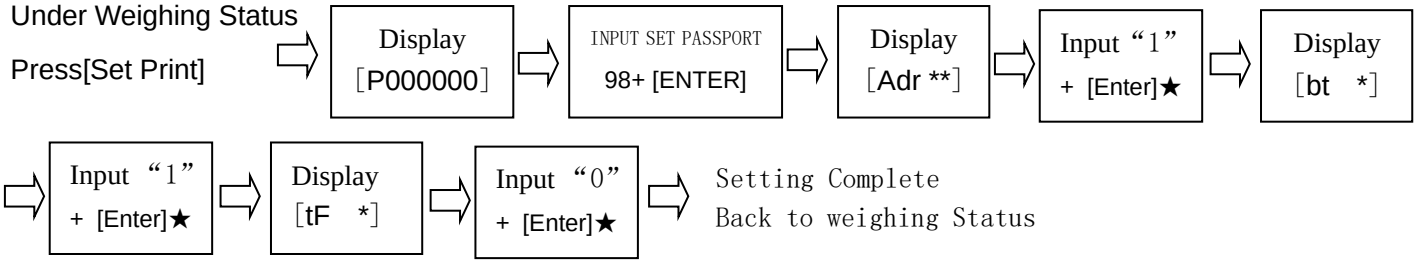


Instruction		
No	Description	Code
5	Connect to ground	GND
3	RS232 Receive	RXD
2	RS232 Send	TXD

Communicate port output cable and indicator must be connected correctly, if incorrect connection, it will damage indicator output port or computer communication input port.

Connection to computer communication need necessary computer technology and program designing skills. Professional technical personnel is required to attend or guide in it. With RS232 serial communication port, it can communicate with computer.

Indicator communication parameter set-up as below：



★1: Choose Communication Address 01～26

★2: Serial Communication Baud Rate(0～4) stands for Baud Rates separately：600,1200,2400,4800,9600

★3: Serial Communication Mode(0～1):0—Continuous sending mode，No receive；1—Command Response Mode

3）OPERATION

3.1 TURN ON AND AUTO SET ZERO

1、After power connection and turning on, the indicator will perform self-check then go into weighing state.

2、If the system was found departure from the calibrate zero however still within the range of turn on auto zero range, it will set zero automatically

3.2 AUTO SET ZERO (Semi-auto set zero)

1、Press the key of[Zero] to make the indictor show zero, when the zero signal will be on.

2、If the displayed value departure from zero, however still within the range of set zero, the [ZERO] key can work, or else the [ZERO] will not function

3、Only when the stable signal light is on, it can be done to set zero.

3.3 TARE

1、This indicator supply 3 types of TARE operation：

Normal Tare：Under weighing state, when weight display is minus value and weighing is stable, you can press [TARE] key to set the tarred weight to be current gross weight. At this time, the indicator “NET” displays to be “0”, and the “NET” symbol light will be on; Only “NET” Symbol light is on can you operate “Tare”

Preset Tare：Under weighing display state, press the key of PRESET TARE, the indicator will display [P ***.**], the displayed value now is present tare value.
If you want to sent a new tare value, press number key to input the value, then press [input] key to confirm.

Transfer tare value according to vehicle no.：Under weighing display state, press [VEHICLE NO.] key indicator display [o ***.**], press number key to input the value, then press [TARE], then the indicator will transfer the storied tare value to use.

2、Under weighing display state, seriate TARE operation is available. When the tare value is “0” the symbol light will turn off

3、When the indicator meet the terms of setting zero, press [set zero] key to set the indicator to zero, and net value symbol lights will be off.

3.4 Time and Date set

1. Under weighing display state, press DATE key, the date symbol light will turn on, indicator display present date. If the operation is correct, press [INPUT] key, or [WEIGH] key to exit; if operation is not correct, please use number key to input correct date, then press [ENTER] key,.

2. Under weighing display state, press TIME key, the date symbol light will turn on, indicator displays present date and runs time. If the time is correct, then directly press[ENTER] key or [WEIGH] key to exit; if time is not correct, please use number key to input correct time, then press [ENTER] key,.

3.5 Battery

1. For the external battery’s cable supplied by manufacturer, the red wire is connected to battery’s positive end, and the black wire is connected to battery’s negative end. Wrong connection will damage the indicator and battery. Please follow strictly!

2. When only using battery to supply power, battery column in the right display window will display present electric quantity left. If all the 3 symbol lights are on, it means the battery is sufficient; If two are on, it means the battery is relatively enough; If only one symbol light is on, it means the battery is low When electric quantity is short, the user should prepare to charge. The battery will give an alarm when only about 5.5V is left. If the use continues to operate, the battery will be less and less, and it will automatically give alarm to the user to replace a new battery or use AC power supply.

3. For the first time to use battery, the battery should be charged completely. If it is not be used for a long time, it should be charged for 20 hours every two months. Care should be taken to move or fit. Avoid serious vibration or furious impact, and prevent to have the battery damaged due to short circuit inside the battery.

3.6 Inner Code Display

Under weighing display state, press [SET PRINT] key, then input [2][8], the indicator will start code display state, and the light of code display bright press [WEIGH] can exit from code display state., and the code display light turn off. Under code display state, only [set zero]、[set print] is available to use.

3.7 Weighing Records Saving

1. In the indicator, cargo No. is 5-digit, goods No. is 2-digit. 200 Vehicle No. and 100 Cargo No. can be saved maximum.
2. Once a group of complete records are saved, the records will be printed simultaneously (if print function is set to be effective).
3. Three ways to save：

1）First save the weight of empty cargo, then weight of full cargo; or, first save the weight of full cargo, then empty cargo. That's to say, only after two times of saving, will a group of complete records be created.

2）If tare is known, a group of complete records can be created only by saving the weight of full cargo.

3）If goods are to be weighed instead of cargo with goods, a group of complete records can be created only by one time of saving.

In order to automatically identify and differentiate the 3 conditions above, it is regulated as below:：

▲ Cargo number should be one between 00001～99999, ie, 00000 can not be used as a real cargo No. If you set the cargo No. as 0000, the indicator will regard the cargo as goods.

▲ If the tare light is on, it means the tare is known. So only one saving is needed to create a group of complete records.

▲ If the cargo No. is set to be a random 5-digit number except 00000, and the tare light is off (ie, when it displays gross weight), it will requires two times of saving to create the a group of complete weight records.

1、Saving Methods：

Steps	Operations	Display	Remarks
1	Press[Print]	[o *****]	Ask to input Vehicle No. Press [Print] under weighing status
2	Press numeral key to input Vehicle No.	[o 01234]	Example：01234
3	Press[Enter]	[hn **]	Ask to input Cargo No.
4	Press numeral key to input Cargo No.	[hn 56]	Example：56
5	Press[Enter] Press numeral key to input deduct percentage	[bFL **] [bFL 10]	Ask to input deduct percentage Example：10. When the fill in print format is selected and use the deduct percentage, this setting will be available.
6	Press[Enter]	[*****]	Complete and back to weighing status

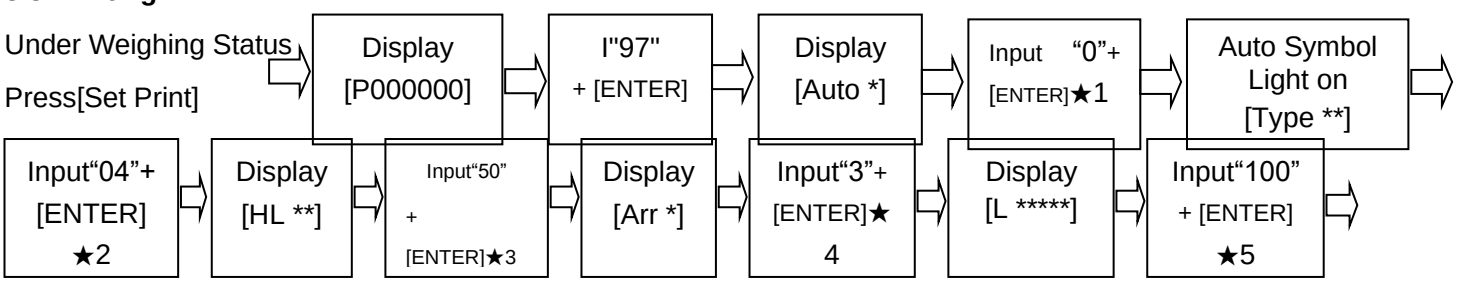
Data saving can be set in terms of Use Vehicle No. or Not Use Vehicle No. If without Vehicle No. mode is selected, all actions or printing related to vehicle No will not exist. Likewise, the data saving can be set in terms of Use Cargo No. or Not Use Cargo No..

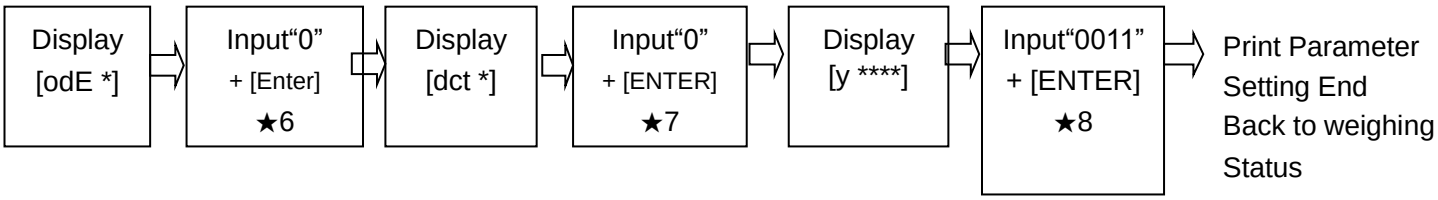
Saving cannot be done when data is not steady, or the tare≤0, or net wt≤0.

2、Automatic saving and print：No twice saving mode when automatic saving and print；The Vehicle No. and Cargo No. have been set before saving. The automatic saved tare value has the following three conditions：①When tare light is on, the present tare will be saved to this record；②When tare light is off, it will automatically look for the tare record against vehicle No. in the memory, and save the tare into indicator.；③When tare light is off, and no record in the memory for the tare, 0 is to be saved into the record as tare.

3、If there are over 200 vehicle No., the indicator will display [Err 10]. You can delete certain vehicle No. or save all of them according to Section 10 in the Chapter hereof. If the saved records are over 500 groups, the indicator will automatically delete the first group data.

3.8 Printing





★1：Choose auto or manual printing (0-Manual 1- Auto)

★2：Choose printer type。The tens digit is default 0，please do not change. You can choose the printer type by changing the single digit value：0—no printer connection；1--TPup16 micro printer（English）；2--TM800；3--KX-P1121；4--EPSON LQ-1600K、LQ300K＋Ⅱ、KX-P1131、 LQ-680K、DS-300 and LQ-730K/630K/635K etc.

★3：Print Limit Choose。00 – Only print after back to 0；25 – print after back to 25％ of weigh； 50 -- print after back to 50％；75 -- print after back to 75％；99 – print even in the full capacity。

★4： Choose print format Arr = 0—record format；1—1 sheet format；2—2 sheet format;3-3 sheet format

★5：Set the minimum print weight for auto print. L must be less than 10 division value at the moment.

★6：Fill in print format choose。0：no fill in print format；1：with fill in print format.

★7：Deduct percentage choose in fill in print format。0：no deduct percentage；1：with deduct percentage.

★8：Special parameter setting，[y ****]→[y WXYZ]。W:0—Battery power saving mode off；1—Battery power saving mode on.X：0—Weight unit Kg；1—Weight unit Ton。Y：0—Date record do not with cargo no.；1--Data record with cargo no. Z：0—Data record do not with vehicle no.；1—Data record with vehicle no. **For battery power supply, it will enter power saving mode 10 seconds after zero is stable. At this moment, the indicator will only show zero and stable. The weight value change or any key of the indicator is pressed, the power saving mode will be exited and back to the weighing status.**

1、Detailed printing format please refer to the appendix. Fill-in print can be quickly made with special carbon-free replication paper, in 2~4 copies(according to the paper standard). It can also be quickly made with special common replication paper, one copy only. Please contact the dealer or our company for special format of fill-in print.

2、Saving and print are simultaneous. Once save a group of records by pressing [print], the records will be printed at the same time (when print function is set effective)

3、If print fails due to some reason（such as printer trouble, etc）, press [re-print] after trouble-shooting. A complementary copy will be printed

4、After a period of weighing is over, the accumulative record can be printed by pressing [Accumulative print].

3.9 Print report

1. Press[Set print]，then press[1]，[Enter], intraday reports in category can be printed (including reports in terms of printing time, cargo No., goods No.). If you want to print previous reports, directly input print date, then press [Enter].
2. Press[Set print]，then press[2]，[Enter], you can print general report 1(in terms of time）
3. Press[Set print]，then press[3]，[Enter]], you can print general report 2（(in terms of Vehicle No.）
4. Press[Set print]，then press[4]，[Enter] , you can print general report 3（in terms of Cargo No.）
5. Press[Set print]，then press[5]，[Enter] , you can print general report 4（in terms of all vehicle No. and tare.

3.10 Delete Records

1、Following ways can be used to delete records：

① Clear all records.（Including all vehicle No. and tare）
② Clear all vehicle No and tare records, but reserve weighing records
③ Clear all weighing Records, but reserve vehicle No and tare records
④ Clear certain vehicle No. and its related tare memory and all weighing records

2、Methods：

(1) Under weighing status，press[Clear] and enter to clear function interface. Indicator display[Sure 0]. Press[1]Press[Enter], Carry out way ①.Press[2]Press[Enter], Carry out way②.Press[3]Press[Enter], Carry out way③. Press[0]Press[Enter] or[Weigh]，exit the interface and back to weighing status.

(2) Under weighing status，Press[Vehicle No.]，and numeral key to enter vehicle no. and then press [Zero] and under [Sure 0] interface. Press numeral key except 0 and delete the vehicle no. and its related tare memory as well as weighing records. [Way④]

▲ Records can not resume after deletion. Care should be taken to avoid missing data.

▲ All weight records should be cleared away after calibration or print parameter is changed

3.11 Ways to input memory tares

The indicator can long time keep 200pcs tare value. Three ways to input tare data:

1、Input tare in digit：（*：is original setting value）

Step	Operation	Display	Remarks
1	Press [Vehicle No.]	In the state of weighing	
2	Enter vehicle No. Press [Enter]	[o *****] [o 35790]	Enter cargo No. eg：35790
3	Enter tare Press [Enter]	[P *****] [P 01000]	Enter tare eg：1000(kg)
4		Return weighing	Over

2. Save tare by weighing：In the state of indicating gross weight, put empty vehicle go on the platform. When steady, press [save tare], enter vehicle No., and finally press [Enter].

3. If no tare record in the memory when saving a group of weight records, the tare in the group of records will be saved into memory for the vehicle No.

4）Notice

4.1 Normal Notice

Display	Note
Print	Please Wait. Data transferring between indicator and printer
LoAd	Data Storing. Display time no more than 2 seconds to remind the operator.
Lo bAt	Low battery Alarm to remind user change battery or use AC power supply
Err 17	Free memory（Weighing records）less than 10pcs, please clear weighing records a.s.a.p. Press any key to back to weighing status （If there remains uncompleted twice weighing records, we suggest to clear after it is completed）
Err 18	Weighing records are full. Please clear the weighing records a.s.a.p.
dt ****	This notice will be appeared after Err18. It means the indicator is transferring the weighing records. Please wait until 0. Please clear the weighing records a.s.a.p.

4.2 Error Operating Notice

Display	Note
Err 02	Load cells are not connected or wrong connection.
Err 03	Overload Alarming. All or part of the load should be discharged.
Err 08	Operating Error.
Err 09	No Such vehicle Number.
Err 10	More than 200pcs vehicle number has been saved.
Err 16	Input eligible date or time; Please input correct date or time.
Err 19	Not able to print under no weighing, minus weighing, unstable weighing or weighing value has not back to the set print lower limit

4.3 Error Setting Notice

Display	Note
Err 12	Setting does not meet manifest requirement. Printing Error. Please reset.
Err 13	Wrong printer type is chosen, please reset.

4.4 Components Error and Debugging Notice

Display	Note
Err 22	Clock chip damaged. Time setting will be lost after turn off. Please change for a new clock chip
Err 23	E^2PROM is damaged. Replace with a new chip, then turn on the indicator or calibrate again after inputting previously-calibrated data.
Err 25	Calibration data lost. System will reset the calibration parameter. If a new

	E^2PROM is changed for please input the former calibration setting and turn on the indicator or calibrate it again.

4.5 Connection Error Notice

Display	Note
Err P	Lack of paper, printer connection error or printer error. Please press any key to exit. Please add paper, reconnect the printer or change with a new printer

Appendix 1.：Serial communication data mode

All data are the ASCII code. Each frame data is formed by 10 digits. The first digit is starting digit, the 10th digit is the stopping digit and the 8 digits in the middle are the data digits. The communication format is as follows:

I. Continuous Sending Mode:

The sending date is the current weight of indicator (Gross weight or Net weight). Each frame is formed by 12 groups of date. The format is as follows:

No. X Byte	Contents and Notes	
1	02(XON)	Start
2	+ or -	Symbol Bit
3	Weighing Data	High Bit
:	Weighing Data	:
:	Weighing Data	:
8	Weighing Data	Low Bit
9	Decimal Digit （0～4）	From Right to Left
10	XOR Checksum	High Four Digit
11	XOR Checksum	Low Four Digit
12	03(X0FF)	Over

XOR Checksum＝2⊕3⊕……8⊕9

II. Instruction Mode:

Indicator output the corresponding data according to the commands released by the PC. Whenever the PC release an instruction the indicator will output one frame of data accordingly.

PC commands:

No. X Byte	Contents and Notes
1	02(XON) Start
2	A～Z Address Serial No.
3	A～I Command A：Handshake Command B：Read Gross Weight Command C：Read Tare
	Command D：Read Net Weight Command E：Read Vehicle No. Command F：Read Cargo No.
	Command G：Clear All Record Command H: Zero Command I：Tare off
4	XOR Checksum High Four Digit
5	XOR Checksum Low Four Digit
6	03(X0FF) Over

XOR Checksum ＝2⊕3⊕……**(** n-1 **)** ⊕n

Indicator Output Contents

No. X Byte	Contents and Notes
1	02(XON) Start
2	A～Z Address Serial No.
3	A～I Command A：Handshake Command B：Send Gross Weight Command C：Send Tare
	Command D：Send Net Weight Command E：Send Vehicle No. Command F：Send Cargo No.
	Command G：No Data Command H：No Data Command I：No Data
4	Output Corresponding Data according to the Commands
:	Output Corresponding Data according to the Commands
n	Output Corresponding Data according to the Commands
n+1	XOR Checksum High Four Digit
n+2	XOR Checksum Low Four Digit
n+3	03(X0FF) Over

XOR Checksum ＝2⊕3⊕……**(** n-1 **)** ⊕n

When Indicator Outputs, the contents of 4~n are as Follows:

Command	No Data	Every Frame is formed by 6 groups of data
Command B	Gross Weight, Format:	Every Frame is formed by 14 groups of data
	a： Symbol(+or-)	
	b～h：Gross Weight Value （6 digit and one radix point）	
Command C	Tare，Format:	Every Frame is formed by 14 groups of data
	a： Symbol(+or-)	
	b～h：Tare Value（6 digit and one radix point）	
Command D	Net Weight, Format:	Every Frame is formed by 14 groups of data
	a：Symbol(+or-)	
	b～h： Net Weight Value （6 digit and one radix point）	

Note：The confirmation for XOR checksum high or low four digit: If XOR checksum high or low four digit less than or equal to 9, then add 30h and send as ASCII code. For example: if XOR checksum high four digit is 6 then add 30h and send ASCII code as 36h which means sending 6; If XOR checksum high or low four digit more than 9, then add 37h and send as ASCII code. For example:：if XOR checksum high four digit is B then add 37h and send ASCII code as 42h which means sending B.

Appendix 2: Example of Printing saved format

Manifest Format：

Weight Bill

Serial No.	0001
Data	08-08-08
Time	20.08.00
Vehicle No.	12345
Cargo No.	088

Weight Bill

Serial No.	0001
Data	08-08-88
Time	20.08.00
Vehicle No.	12345
Cargo No.	088

Weight Bill

Serial No.	0001
Data	08-08-08
Time	20.08.00
Vehicle No.	12345
Cargo No.	088

Gross	8.000(kg
Tare	1.300(kg
Net Weight	6.700(kg

Gross	8000(kg)
Tare	1300(kg)
Net Weight	6700(kg)

Gross	8000(kg)
Tare	1300(kg)
Net Weight	6700(kg)

Record Format：

Weight Bill **Data：**08-08-08

Serial No.	Time	Vehicle	Cargo	Gross	Tare(kg)	Net Weight(kg)
0001	20.08.00	12345	088	8000	1300	6700
0002	20.09.30	00888	088	8000	1300	6700
0003	20.11.00	00888	011	8000	1300	6700
Total：		Gross Weight：24000(kg)		Net Weight：20100(kg)		

Filled Type Format：(Only 5 minutes needed to finish printing)

WEIGHT BILL		
Sheet 1 for Operator		
SERIAL No.	123	
DATE	08-08-08	
TIME	20 .14 .56	
VEHICLE No.		
CARGO No.		
GROSS	1580	kg
TARE	80	kg
DISCOUNT	10	%
NET	1350	kg
REMARK		

Appendix 3: Example for Report Printing Format

Daily Report 1 **Data：**08-08-08

Serial	Time	Vehicle	Cargo No.	Gross Weight(kg)	Tare(kg)	Net Weight(kg)
0001	20.08.00	12345	088	8000	1300	6700
0002	20.09.30	00888	088	8000	1300	6700
0003	20.11.00	00888	033	8000	1300	6700
0004	20.14.42	12345	033	8000	1300	6700
Total：		Gross Weight：32000(kg)		Net Weight：26800(kg)		

Daily Report 2 **Data：**08-08-08

Serial No.	Vehicle No.	Vehicle Weight(kg)	Times	Total Weight(kg)	Total Net Weight(kg)
0001	12345	1300	0002	16.000	13400
0002	00888	1300	0002	16.000	13400

Daily Report3 **Data：**08-08-08

Serial No.	Vehicle No.	Times	Total Net Weight(kg)
0001	088	0002	13400
0002	033	0002	13400

Appendix 4： Example for Printing Operation

I. Once Manual Preset Tare Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1	Cargo Loading	Press[Tare Preset]	[P00.000]	
2	Send Preset Tare Weight	Such as[1000]	[P1. 000]	
3		Press[Enter]	[*****]	Tare off
4		Press[Print]	[o *****]	Former Cargo No.
5	Send Cargo No.	Such as[00123]	[o 00123]	If former Cargo no. then press [Enter] directly. Cargo no. is no need to change
6		Press[Enter]	[hn **]	Former Cargo no.
7	Send Cargo No.	Such as[11]	[hn 11]	If former Cargo no. then press [Enter] directly. Cargo no. is no need to change
8		Press[Enter]	[Print]	Print weight bill

II. Once Manual Direct Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1	Cargo Loading	Press[Print]	[o *****]	Former Cargo no.
2	Send“0”	Such as[0]	[o 00000]	“0”Cargo no. stands fo Cargo
3		Press[Enter]	[hn **]	Former Cargo No.
4	Send Cargo No.	Such as[11]	[hn 11]	If former Cargo no. then press [Enter] directly. Cargo no. is no need to change
5		Press[Enter]	[Print]	Print weight bill

III. Print Weight Bill（Double Weighing Storing Mode, i.e. Empty Cargo first, Full Cargo later, or Full Cargo first, Empty Cargo later）

Steps	Condition	Operation	Display	Instructions
1	Loading Empty Cargo (After Stable, the indicator lights on)	Press[Print]	[o *****]	Former Cargo no.
2	Send New Cargo No.	Such as[00123]	[o 00123]	If former Cargo no. then press [Enter] directly. Cargo no. is no need to change
3		Press[Enter]	[hn **]	Frevious Cargo no.
4	Send New Cargo No.	Such as[11]	[hn 11]	If former Cargo no. then press [Enter] directly. Cargo no. is no need to change
5		Press[Enter]	[LoAd]	Back to weighing status in 1.5 seconds
6	Loading Full Cargo (After Stable, the indicator lights on)	Press[Print]	[o 00123]	Cargo no. sent by “Step” 2.
7		Press[Enter]	[hn 11]	Cargo no. Sent by “Step” 3.
8		Press[Enter]	[Prnt]	Print weight bill

- Note 5： If the first step is full Cargo then the 6th step should be empty Cargo, other operations keep the same.

IV. Preset Tare Auto Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1		Press[Print Setting]	[Auto *]	Choose 1 for auto printing
2		Press[1]	[Auto 1]	
3		Press[Enter]	[type *]	Hereinafter no need to amend
4		Press[Weighing]	[0000]	Back to weighing status
5		Press[Preset Tare]	[P ***]	
6	Tare Presetting	Send such as[100]	[P 00100]	
7		Press[Enter]	[-100]	
8	Loading Full Cargo (After Stable, the indicator lights on)		[400]	Full Cargo 500，minus tare 100
9			[Print]	Auto print weight bill

V. Select Tare According to Cargo No. and Print Weight Bill：

Steps	Condition	Operation	Display	Instructions
	Cargo Tare is Preset			Stored in indicator
1	Loading Full Cargo (After Stable, the indicator lights on)	Press [Cargo No.]	[o *****]	Former Cargo no.
2	Send required Cargo No.	Such as[00123]	[o 00123]	If same as former Cargo no. then press [Tare] directly. No need to send Cargo no.
3		Press[Tare]	[***]	Minus the stored tare weight
4		Press[Print]	[o *****]	Required Cargo no.
5		Press[Enter]	[hn **]	Former Cargo no.
6	Send New Cargo No.	Such as [11]	[hn 11]	If same as former Cargo no. press [Enter] directly. No need to send new Cargo no.
7		Press[Enter]	[Print]	Print weight bill
8	There is minus on the indicator	Press[Tare]	[000]	Back to weighing status

VI. Multi Cargo Preset Tare Manual Printing Weight Bill

Step	Condition	Operation	Display	Instructions
1		Press [Cargo No.]	[o *****]	Former Cargo no.
2	Send New Cargo No.	Such as[00123]	[o 00123]	If former Cargo no. then press [Enter] directly. No need to send new Cargo no.
3		Press[Enter]	[P *****]	Preset tare
4	Send Preset Tare	Such as[100]	[P 100]	
5		Press[Enter]	[000]	Back to weighing status
	Store Multi Cargo Preset Tare	……	[……]	Store multi Cargo preset tare. step 1－5
6	Loading Full Cargo (After Stable, the indicator lights on)	Press [Cargo No.]	[o *****]	Former Cargo no.
7	Send Required Cargo No.	Such as[00123]	[o 00123]	If same as former Cargo no. then press [Tare] directly. No need to send Cargo no.
8		Press[Tare]	[***]	Minus the stored tare

				weight
9		Press[Print]	[o *****]	Required Cargo no.
10		Press[Enter]	[hn **]	Former Cargo no.
11	Send New Cargo No.	Such as[11]	[hn 11]	If same as former Cargo no. then press [Enter] directly. No need to send new Cargo no.
12		Press[Enter]	[Prnt]	Print weight bill
13	There is minus on the indicator	Press[Tare]	[000]	Back to weighing status （Cargo drive away）

VII Daily Report Printing（Three copies）

1. Print Current Daily Report

Steps	Operation	Display	Instructions
1	Press[Printing	[P00.00.	choose Printing
2	Press [1]	[P00.00.	
3	Press[Enter]	[Print]	Print out 3 copies of current daily report

2. Print Passed Daily Report

Steps	Operation	Display	Instructions
1	Press[Print Setting]	[P00.00.00]	Choose Printing
2	Press[0][8][0][8][0][8]	[P08.08.08]	Input required printing data Such as 08 day 08month 08year
3	Press[Enter]	[Print]	Print out 3 copies of daily report for choose

VIII Print General Report

Steps	Operation	Display	Instructions
1	Press[Print	[P00.00.00	Printing choose
2	Press[2]	[P00.00.02]	02 Print general report 1； 03 Print general report 2； 04 Print general report 3； 05 Print general report 4；
3	Press[Enter]	[Print]	Print out general report

Appendix **5：Packing List**

S/N.	Name and Specifications	Quantity	Remarks
1	Weighing Indicator	1pc	
2	User Manual	1pc	
3	Calibration Manual	1pc	
4	Eligible Certificate	1pc	
5	9 Pin D Type Connector（Pin）	1pc	
6	9 Pin D Type Connector Plastic Cover	1pc	
7	Fuse 0.5A	1pc	
8	Two head AC cable	1pc	
9	6V/10Ah Battery	1pc	Optional
10	Φ2.1 Plug battery connector wire	1pc	Optional
11			
12			