XK3118K5
WEIGHING INDICATOR

USER MANUAL

Version: November 2009

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

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(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)

25 November 2009

1. Technical Parameters:

- Execute Standard: GB/T 7724-2008
- Accuracy Class：III, n=3000
- A/D Conversion Mode: adopt Δ－Σ, 24bit
- Input Sensitivity ≥ 1.5uV/e
- Load Cell Bridge Voltage: DC 5V, 1-12pcs 350Ω resistance stain gauge load cell.
- Load Cell Connection Mode: 6 wires (long distance compensation, about 50 meters)
- Division: 1/2/5/10/20/50/100 can be selected.
- Display: 7 units LED, 7 state indicate lights, 3 power indicate lights.
- Clock: clock can display year/moth/date, hour/minute/second, auto leap year, leap month, without effect by power off.
- Remote display port: current loop output, 600bps,
- Serial communication port:
  - Transmission Mode: RS232C/RS485
  - Baud Rate: 600/1200/2400/4800/9600 to be selected.
  - Transmission distance: RS232≤30m，RS485≤1200m
- Print port: standard parallel output port, can connect with TpuP16 mini-printer (English), KX－P1121、KX－P1131、LQ300K＋II、LQ1600K , TM800Printer
- Data storage:
  - Vehicle number and tare: 1024 pcs
  - Cargo No.: 100 pcs
  - Weight record: 1024 pcs
- Power supply:
  - AC：110~220V，50~60Hz
  - Battery：6V/10AH free maintenance lead-acid battery, indicator can charge the battery randomly
- Work environment:
  - Working temperature： 0℃～40℃

- Working humidity：≤85％（RH），no condensation

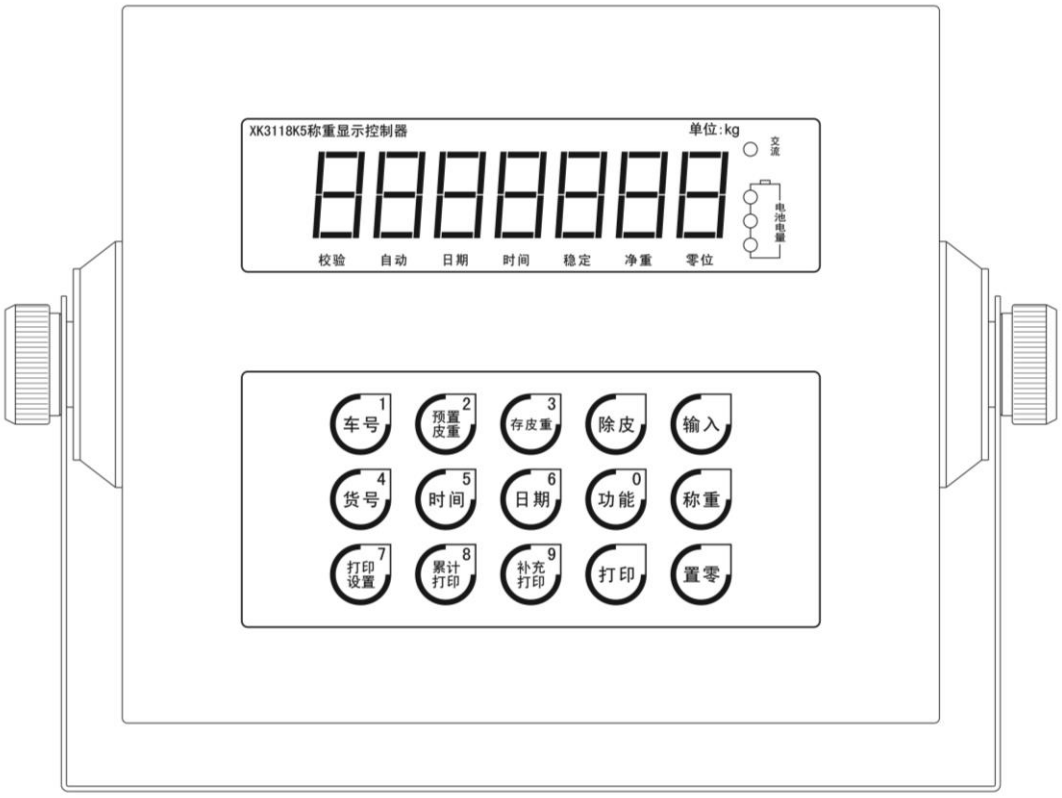
❖ Storage environment：

- Storage temperature：－20℃～60℃
- Storage humidity：≤95％（RH），no condensation

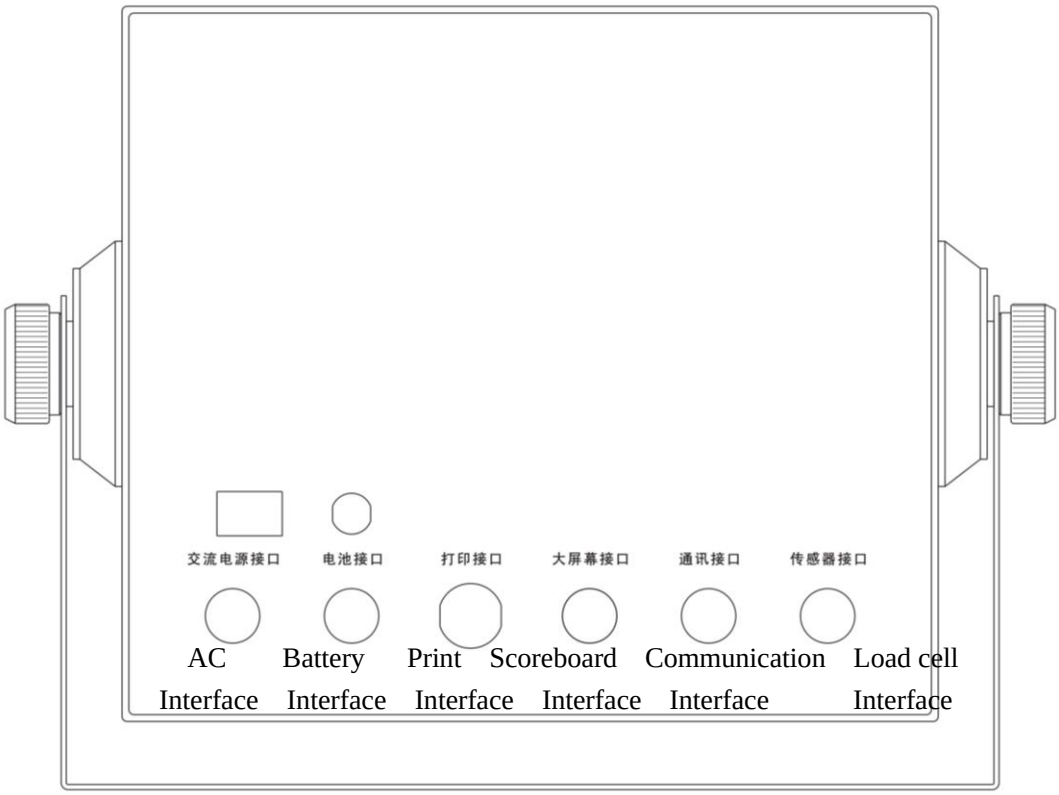
2.Installation

2.1 Indicator Layout

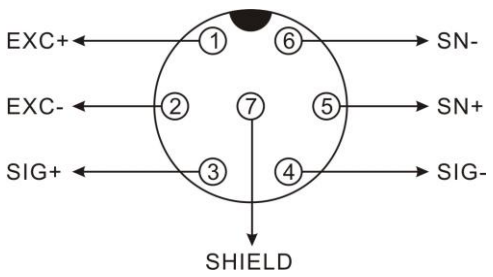
XK3118K5 Front Panel



XK3118K5 Back panel



2.2 Connection to Load Cell



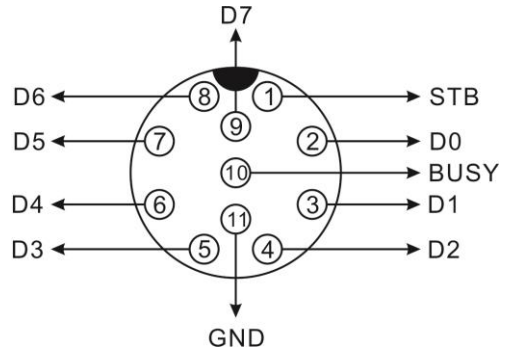
Specification		
pin	Name	Code
1	Excitation +	EXC+
2	Excitation -	EXC-
3	Signal +	SIG+
4	Signal -	SIG-
5	Feedback +	SN+
6	Feedback -	SN-
7	Shield cable	SHIELD

Short circuit connects pin ①with pin ⑤, pin ② with pin ⑥ when connected to load cell with 4 wires.

▲！Load cell connect with indicator must be reliable; shield wire must be connected to ground reliably. Connection or disconnection are not allowed when the indicator is electrified, which may damage the indicator or load cell.

▲ ！ Load cell and indicator is static sensitive device, taking measures to prevent from static power when using. Welding or other strong electrical operation should be strictly forbidden. During the thunder storm season, proper lightning protection should be taken to protect the load cell and indicator from damaging by lighting and to ensure the personal safety to run of the weighing and related equipment.

2.3 Connection to Printer



Specification		
Pin	Name	Code
1	Data Strobe	STB
2	8 bit parallel data	D0
3		D1
4		D2
5		D3
6		D4
7		D5
8		D6
9		D7
10	"busy" signal	BUSY
11	ground	GND

Print Note:

Print function can be used after set-up.

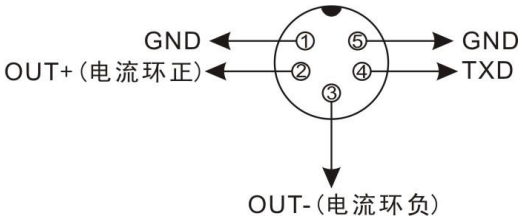
Indicator print port output cable must be connected to print correctly, special printer cable is necessary. Incorrect connection may damage the indicator output port or printer input port even the indicator and printer.

Before using printer, it is necessary to connect the cable correctly first, then turn on indicator power, finally turn on printer power; Finish working, it is necessary to turn off printer power first, then turn off indicator power, finally take off the connect cable. If the order is reversed, it may damage indicator or printer. Be caution!

Due to various printer, and different characteristics, 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

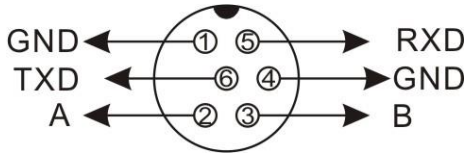


Specification		
Pin	Name	Code
1	Ground	GND
2	Current loop + (input)	OUT+
3	Current loop – (output)	OUT-
4	232 transmission	TXD
5	Ground	GND

This indicator remote display output format is compatible with XK3190 remote display.

▲！**I**ndicator 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

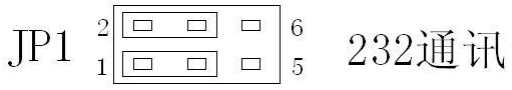


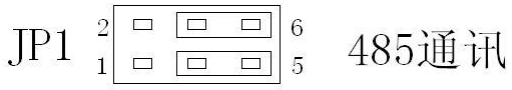
Specification		
Pin	Name	Code
1	Ground	GND
2	485（A）	A
3	485（B）	B
4	Ground	GND
5	232 Receive	RXD
6	232Transmit	TXD

▲！Communicate port output cable and indicator must be connected correctly, if incorrect connection, it will damage indicator output port or computer communication input port, and even it damages printer and indicator and related equipments.

▲！Connection to computer communication, professional skills and personnel is required. With RS232/RS485 serial communication port, can connect with computer.

This indicator's RS232 and RS485 communication function is alternative, please confirm necessary communication type then change the inner leap loop (JP1), the acquiescent type is RS232, the leap loop layout as below:





Indicator communication parameter set-up as below:

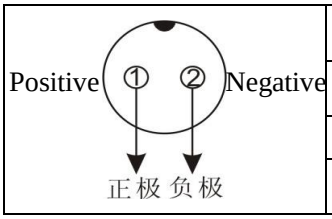
step	operation	display	Remarks
1	press[set print]	Under weight state	
2	press[9][8] press[input]	[P000000] [P000098]	Input set password "98"

3	press[1] press[input]	[Adr **] [Adr 01]	Communication address(01～26) For example: 1
4	press[1] press[input]	[bt *] [bt 1]	Bound rate of serial communication (0-4)indicate separately: bound rate：600、1200、2400、4800、9600 For example：1
5	press[0] press[input]	[tF *] [tF 0]	serial communication port (0-1) 0-continual transmit type, no reception 1—indication response mode For example: 0
6		weighing state	communication parameter set-up is over

For Communication Format please refer to appendix 1.

2.6 Battery Interface

Connect indicator and free maintenance lead-acid battery with battery cable, battery interface as below:



Specification		
Pin	Name	Code
1	DC positive	DC +
2	DC negative	DC -

3.OPERATION

3.1 Open and Auto Set Zero

1. After connect to AC power and turn on indicator, the indicator will perform self-check then go into weighing state.
2.After the indicator power on, If the scale was found departure from the calibrate zero however still within the range of turn on auto zero then the indicator will set zero automatic the range of turn on and auto zero set parameter and method, please refer to calibration chapter.

Please set the calibration switch into forbidden state(down direction).

3.2 Manual Zero Set

1. Press set zero button, can set indicator to zero, the zero symbol will bright on.
2. Display value out off zero, however still in the range of set zero stage; [set zero] key is available. Otherwise, [set zero] not valid. The range of set zero parameter and method, please refer to calibration chapter.
3. The operation is available under the conditions of stable symbol bright state.

3.3 TARE operation.

1. This indicator supply 3 type TARE operation
①. Normal TARE
Under weighing state, weight display is minus value and weighing is stable. Press TARE key, The tare weight is current gross weight. And the indicator "NET" displaying is "0", and the "NET" symbol lights will be on;

②..PRESET TARE
Under weighing display state, press PRESET TARE, indicator display [P ***.**], the display value is present tare value. If need set new tare value, press number key to input the value, then press [input]key to confirm.
③. Transfer tare value as 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 storage 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. when the indicator meet the terms of set zero, press [set zero] key can set the indicator to zero, and net value symbol lights will be off;

3.4 Time and Date set and operation.

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

key to input correct time, then press [INPUT] key,.

3.5 Battery

1. When use battery power supply, display window right side will display battery coulometry.(for example: 3 symbol lights all bright stand for battery power enough etc.). The battery low power alarm is 5.5V. The battery should be recharged if the battery power is not enough, otherwise influence the life of the application and the indicator will indicate user to change battery.
2. Please charge the power enough before use when the battery first application.
3. In the battery, connect cable red pin is (+), black pin is (–) to connect with battery accordingly.
4. Battery is expendable unit, not included in warrantee range.

3.6 Internal Code Display

1. 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.

2．Under code display state, only [set zero]、[set print] is available.

3．20 code equal to 1 division.

3.7 Digits Record Storage and Operation

1、 In the indicator, cargo No. is 5-digit, goods No. is 2-digit. 1024 cargo No. and 100 goods No. can be saved at most.

2、 Once a group of complete records are saved, the records will be printed simultaneously (if print function is set 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, only one saving is needed.

XK3118K5 In order to automatically identify and differentiate the 3 conditions above, it is regulated as below:

1) Cargo number should be one between 00001～99999, ie, 00000 should be a cargo No. If you set the cargo No. as 0000, the indicator will regard the cargo as goods.
2) If the tare light is bright, it means the tare is known. So only one saving is needed to create a group of complete records.
3) If the cargo No. is set to be a random 5-digit number except 00000, and the tare light is not bright, it will requires two times of saving to create the a group of complete weight records.

4. Saving method：

Step	Actions	Indication	Remarks
1	Press[Print]	In the state of weighing	
2	Input cargo No. Press[Enter]	[o *****] [o 01234]	Input cargo No. eg：01234
3	Input goods No. Press[Enter]	[hn **] [hn 56]	Input goods No. eg：56

4	Press[10] Press[Enter]	[BFL **] [BFL 10]	Input deduct percentage eg：10
			Over

Data saving can be set in terms of Use Cargo No. or Not Use Cargo No.. See details in Printing Setting Section. For Not Use Cargo No, all actions related to cargo No will not exist. Likewise, the data saving can be set in terms of Use Goods No. or Not Use Goods No., see details in Printing Setting Section.

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

5. Automatic saving and print：

2. See Print Setting Section for setting details.
3. No twice saving for automatic saving and print.
4. The cargo No. and Goods No. have been set before saving.
5. Tare is in three conditions：
   1. When tare light is not bright, the tare is weighed and saved.
   2. When tare light is not bright, it will automatically look for the tare record against cargo No. in the EMS memory, and save the tare into indicator.
   3. When tare light is not light, and no record in the EMS memory for the tare, 0 is to be saved into indicator as tare.

6. If there are over 1024 cargo No., the indicator will show [Err 10]. You can delete some or all cargo No. records according to Section 7 in the Chapter hereof. If the saved records are over 1024 groups, the indicator will automatically delete the first group data.

3.8 Print:

1. Setting：

Step	Actions	Indication	Remarks
1	Press[Print Set] Press[9][7] Press[Enter]	[P00.00.00] [P00.00.97]	Input password 97
2	Press[0] Press[Enter]	[Auto *] [Auto 0]	Choose Auto/ Manual （0- Manual 1-Auto） eg：Choose 0（Manual print）
3	Press[4] Press[Enter]	Auto light is on [Type *] [Type 4]	Choose printer 0—No effect of printing 1--TPup16（English） 2--TM800 3—Panasonicc KX-P1121 4--EPSON LQ-1600K、LQ300K＋、Panasonicc KX-P1131 eg：choose 4

4	Press[5][0] Press[Enter]	[HL **] [HL 50]	Choose print restrictions 00－print after Zero 25－print after returning 25％ below weighing 50－print after returning 50％ below weighing 75 －- print after returning 75％ below weighing 99－print upon full capacity eg：50
5	Press[3] Press[Enter]	[Arr *] [Arr 3]	Choose print format Arr=0—record format 1—1 sheet 2—2 sheets 3—3 sheets eg：choose 3
6	Press[1][0][0] Press[Enter]	[L *****] [L001.00]	Set minimum weight to automatically weigh L over 10 divisions are required eg：100
7	Press[0] Press[Enter]	[odE *] [odE 0]	Choose print format of fill-in 0：Not use fill-in format 1：Use fill-in format Eg:: choose 0
8	Press[0] Press[Enter]	[dct *] [dct 0]	Choose deduct percentage for fill-in 0：Not use deduct percentage 1：Use deduct percentage eg：choose 0

▲！Deduct percentage can be chosen only in the state of fill-in print format.

★ See appendix for print format details

★ Fill-in print can be quickly made with special carbon-free replication paper, in triplicate. It can also be quickly made with special common replication paper, one copy only.

★ Please contact dealer for special format of fill-in print.

❖ 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).

❖ 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 Report Print

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, and 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 cargo No.）

4. Press[Set print]，then press [4]，[Enter] , you can print general report 3（in terms of goods No.）

5. Press[Set print]，then press [5]，[Enter] , you can print general report 4（in terms of all cargo No. and tare）.

3.10 Clear Record Operation

1. Following ways can be used to delete records:
   ①：Clear away all records.（Including all cargo No. and tare in the EMS memory
   ②：Clear away a cargo No., tare and all records related to the cargo No.
2. When you use any way to delete records, the indicator will show [Sure 0] in order to ask the operator to confirm the action.
   If you are sure to delete，set [Sure]=Not 0，then press [Enter]；
   If you are not sure，set [Sure]＝0，then press [Enter] or[Weigh].
3. Actions：

(1). In the state of weighing and when the demarcation switch is off, you can press [Function] to delete all records. [①]

(2). In the state of weighing, press [Cargo No.], then enter the cargo No., press [0], you can delete the cargo No. as well as related memory tare and other records. [②]

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

▲！All weight records should be cleared away after demarcation or print parameter is changed.

3.11 Memory Tare Input Method

1024 tare data can be kept in a long term. Three ways to input tare data:

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

Step	Actions	Indication	Remarks
1	Press [Cargo No.]	In the state of weighing	
2	Enter cargo 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 cargo on the platform. When steady, press [save tare], enter cargo No., and finally press [Enter].

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

4.0 Maintenance and Notice

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

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

▲ The load cell and indicator should be reliably connected. The system should be grounded, far away from strong electric field, magnetic field, seriously corrosive materials, and flammable & explosive materials.

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

▲！ In the areas of frequent thunders, arrester should be fixed to keep operators' safety, and to avoid damage of devices.

▲！Load cell and indicator are static sensitive devices， so static-proof measures should be taken. It is forbidden to do any electric welding or strong electric field actions. In the season of thunder, credible thunder-proof measures should be taken, in order to avoid devices' damage and operators' physical safety.

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

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

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

▲！ Before connecting or disconnecting load cell wire, powder supply of indicator should be firstly switched off！

▲！ Before connecting printer wire, powder supply of indicator and printer should be firstly switched off！

▲！ Before connecting or disconnecting screen wire, powder supply of indicator and screen should be firstly switched off！

▲！Before connecting or disconnecting communication wire, powder supply of indicator and host be firstly switched off！

4.7. Important advice：Check the indicator before use. As a manufacturer, we are responsible for the indicator quality only, with highest compensation value of 2 times of the troubled indicator's price. We are not responsible for any problem of system where the indicator is used.

4.8. Regulations about external connection in the manual should be strictly observed. It is not allowed change the connection at random. If any trouble happens during operation, power off immediately and send to special agencies to repair. Nonprofessional factory should no repair to avoid any possible more serious damage. **It is not allowed to open the indicator, or we do not guarantee to repair.**

4.9. Accumulator is consumption goods，so it is beyond the covery of " Three Guarantees for Product Quality"。

▲！ 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.

4.10. If not man-made trouble happens within one year after the date of sale under regular service condition, we guarantee to keep it in good repair free of charge for life. Please send the troubled indicator and guarantee card (the serial number should

be coincident) to the special repair shop or the supplier.

Special notice：It is not allowed to unlock the lead seal without any authorization of technical department. Calibrate after open lead seal.

5. Information Indicate

5.1 Normal Information Indicate

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.

5.2 Error Information Indicate

Display	Note
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	Vehicle number has stored more than 1024pcs.
Err 16	Input date or time not eligible, please input correct date or time.
Err 19	Not able to print under no weighing, minus weighing or unstable weighing status.

5.3 Error Set Information Indicate

Display	Note
Err 12	Setting is not according to the Manifest requirement. Printing Error. Please reset.
Err 13	Not correct printer type chosen, please reset.

5.4 Components Malfunction and Solution Information Indicate

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 damaged，a new chip must be changed for. Turn on the indicator after inputting the former calibration setting or calibrate it again.
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.

5.5 Error Connection Information Indicate

Display	Note
Err P	Printer connection error or printer error. Please press any key to exit. Please reconnect the printer or change for a new printer

Appendix 1：Serial Communication Data Format

All of the data is ASCII Code. Every group of data includes 10 bits. The first bit is for start, the 10th bit is for stop and the 8 bits in the middle is the data bit. Communication mode is as follows:

I. Continuous Mode:

The transferring data is the current weight(gross weight or net weight) showing on the indicator. Each frame data is formed by 12 groups of data。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	From Right to Left（0～4）
10	XOR Checksum	High Four Digit
11	XOR Checksum	Low Four Digit
12	03(X0FF)	End

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 Vehile No. Command F：Read Goods 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) End

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 Vehile No. Command F：Send Goods 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) End

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

When Indicator Output, the Contents for 4~n are as Follows:

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

d C	a： Symbol(+or-) b～h： Tare Value （6 digit and one radix point）	group of data
Command D	Net Weight, Format: a： Symbol(+or-) b～h： Net Weight Value （6 digit and one radix point）	Every Frame is formed by 14 group of data

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: Storage Print Format Example

Manifest Format：

Weight Bill

Serial No.	0001
Data	08-08-08
Time	20.08.00
Vehile No.	12345
Goods No.	088
Gross Weight	8.000(kg)
Tare	1.300(kg)
Net Weight	6.700(kg)

Weight Bill

Serial No.	0001
Data	08-08-88
Time	20.08.00
Vehile No.	12345
Goods No.	088
Gross Weight	8.000(kg)
Tare	1.300(kg)
Net Weight	6.700(kg)

Weight Bill

Serial No.	0001
Data	08-08-08
Time	20.08.00
Vehile No.	12345
Goods No.	088
Gross Weight	8.000(kg)
Tare	1.300(kg)
Net Weight	6.700(kg)

Record Format：

Weight Bill **Data：** 08-08-08

Serial No.	Time	Vehile No.	Goods No.	Gross Weight(kg)	Tare(kg)	Net Weight(kg)
0001	20.08.00	12345	088	8.000	1.300	6.700
0002	20.09.30	00888	088	8.000	1.300	6.700
0003	20.11.00	00888	011	8.000	1.300	6.700
Total：		Gross Weight：24.000(kg)		Net Weight：20.100(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: Table Print Format Example

Daily Report 1 **Data**：08-08-08

Serial No.	Time	Vehile	Goods No.	Gross Weight(kg)	Tare(kg)	Net Weight(kg)
0001	20.08.00	12345	088	8.000	1.300	6.700
0002	20.09.30	00888	088	8.000	1.300	6.700
0003	20.11.00	00888	033	8.000	1.300	6.700
0004	20.14.42	12345	033	8.000	1.300	6.700
Total：		Gross Weight： 32.000(kg)		Net Weight： 26.800(kg)		

Daily Report 2 **Data**：08-08-08

Serial No.	Vehile No.	Vehile Weight(kg)	Times	Total Weight(kg)	Total Net Weight(kg)
0001	12345	1.300	0002	16.000	13.400
0002	00888	1.300	0002	16.000	13.400

Daily Report3 **Data**：08-08-08

Serial No.	Vehile No.	Times	Total Net Weight(kg)
0001	088	0002	13.400
0002	033	0002	13.400

Appendix 4：Print Operation Example

I. Once Manual Preset Tare Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1	Goods 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 vehile No.
5	Send Vehile No.	Such as[00123]	[o 00123]	If former vehile no. then press [Enter] directly. Vehile no. is no need to change
6		Press[Enter]	[hn **]	Former goods no.
7	Send Vehile No.	Such as[11]	[hn 11]	If former goods no. then press [Enter] directly. Goods 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	Goods Loading	Press[Print]	[o *****]	Former vehile no.
2	Send "0"	Such as[0]	[o 00000]	"0"vehile no. stands fo goods
3		Press[Enter]	[hn **]	Former Goods No.
4	Send Goods No.	Such as[11]	[hn 11]	If former goods no. then press [Enter] directly. Goods no. is no need to change
5		Press[Enter]	[Print]	Print weight bill

III. Print Weight Bill（Double Weighing Storing Mode, i.e. First Empty Vehile then Full Vehile or first Full Vehile then Empty Vehile）

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

- Note 5：If the first step is full vehile then the 6th step is empty vehile, other operation is 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 Vehile (After Stable, the indicator lights on)		[400]	Full vehile 500，minus tare 100
9			[Print]	Auto print weight bill

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

Steps	Condition	Operation	Display	Instructions

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

VI. Multi Vehile Preset Tare Manual Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1		Press[Vehile No.]	[o *****]	Former vehile no.
2	Send New Vehile No.	Such as[00123]	[o 00123]	If former vehile no. then press [Enter] directly. No need to send new vehile 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 Vehile Preset Tare	……	[……]	Store multi vehile preset tare. step 1－5
6	Loading Full Vehile (After Stable, the indicator lights on)	Press[Vehile No.]	[o *****]	Former vehile no.
7	Send Required Vehile No.	Such as[00123]	[o 00123]	If same as former vehile no. then press [Tare] directly. No need to send vehile no.
8		Press[Tare]	[***]	Minus the stored tare weight
9		Press[Print]	[o *****]	Required vehile no.
10		Press[Enter]	[hn **]	Former vehile no.
11	Send New Goods No.	Such as[11]	[hn 11]	If same as former goods no. then press [Enter] directly. No need to send new goods no.
12		Press[Enter]	[Prnt]	Print weight bill
13	There is minus on the indicator	Press[Tare]	[000]	Back to weighing status （Vehile drive away）

▲ Daily Report Printing（Three Sets）

1. Print Current Daily Report

Steps	Operation	Display	Instructions
1	Press[Printing Setting]	[P00.00.0	Printing choose
2	Press [1]	[P00.00.0	
3	Press[Enter]	[Print]	Print out current 3 sets of daily report

2. Print Passed Daily Report

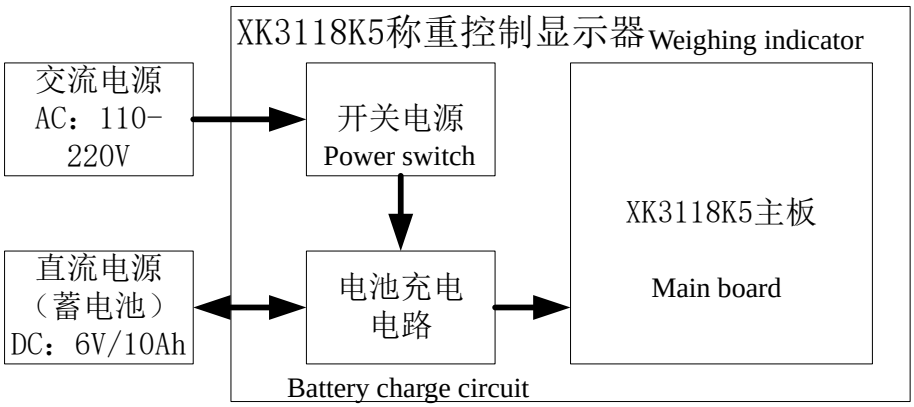
Steps	Operation	Display	Instructions
1	Press[Print Setting]	[P00.00.00]	Printing choose
2	Press[0][8][0][8][0][8]	[P08.08.08]	Input required printing data Such as 08 day 08month 08year
3	Press[Enter]	[Print]	Print out 3 sets of daily report of choosing day

VIII Print General Report

Steps	Operation	Display	Instructions
1	Press[Print Setting]	[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：XK3118K5 Power Charge Function Specification

XK3118K5 indicator is with a battery recharging function module inside. Systems structure is as follows:



This battery recharging module can achieve constant recharging to battery. Please choose battery type 6V/10Ah; the battery recharging module is with battery **interface and reversed connection and short connection protection circuit**. When battery is reversed connected, the battery power supply circuits will be automatically cut down. Indicator keeps buzzing to give alarm to the user. When battery interface is short connected, the inside batter power supply circuit automatically cut off for protection.

Attention：This system can not guarantee the battery itself will be damaged because of short connect