
XK3118K8 WEIGHING INDICATOR

USER MANUAL

Apr. 2010 version

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

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1.0 Technical Parameters and Description

◆ About Indicator Model Number:

XK3118K8 indicator contains the following 6 different model numbers:

Rubber keystroke common type: XK3118K8A

Rubber keystroke set internal thermal micro printer type: XK3118K8AP

Rubber keystroke set internal pin type micro printer type: XK3118K8AP1

Stainless steel keystroke common type: XK3118K8B

Stainless steel keystroke set internal thermal micro printer type: XK3118K8BP

Stainless steel keystroke set internal pin type micro printer type: XK3118K8BP1

◆ Execute Standard: GB/T 7724-2008

◆ Accuracy Class: III

◆ N=3000

◆ A/D Conversion Mode: adopt $\Delta-\Sigma$ technology, 24bits.

◆ Input Sensitivity $\geq 1.5\mu\text{V/e}$

◆ A/D Conversion Resolution: 15,000,000

◆ Load Cell Bridge Voltage: DC +5V, 1-12pcs 350 Ω resistance strain 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/month/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 $\leq$ 30m, RS485 $\leq$ 1200m

◆ Print port: standard parallel output port, can connect with TpuP16 mini-printer,

KX-P1121、KX-P1131、LQ300K+II、LQ1600K, TM800, LQ-680K, DS-300 wide line Printer;

The internal thermal micro printer or pin type micro printer can be set, selected with different indicator model numbers.

Thermal micro printer: Printing speed about 24mm/second, uses 57mm wide thermal printing paper, scroll diameter $\leq$ 40mm

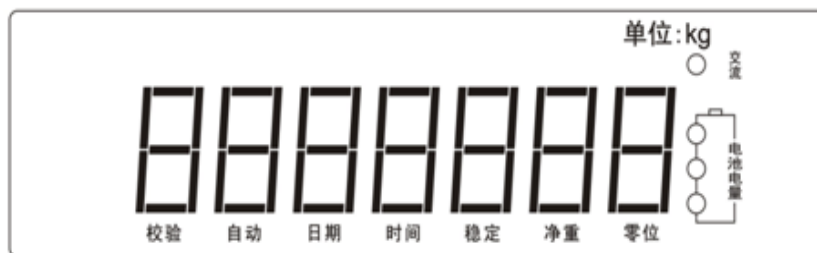
Pin type micro pinter: Printing speed about 1 line per second, uses 44mm wide pin type printing paper, scroll diameter $\leq 40\text{mm}$

- ◆ Data storage: can store 1024pcs vehicle number and tare, 100pcs cargo items, 1024pcs weighing records.
- ◆ Power supply: AC 110~220V, 50~60Hz;
Outside connect 6V/10AH rechargeable battery.
- ◆ Working environment: Temperature: $0^{\circ}\text{C}\sim 40^{\circ}\text{C}$
Humidity $\leq 85\%$ (RH) , without condensation.
- ◆ Storing environment: Storage temperature: $-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$
Humidity $\leq 95\%$ (RH) , without condensation.

2.0 Installation

2.1 Indicator layout

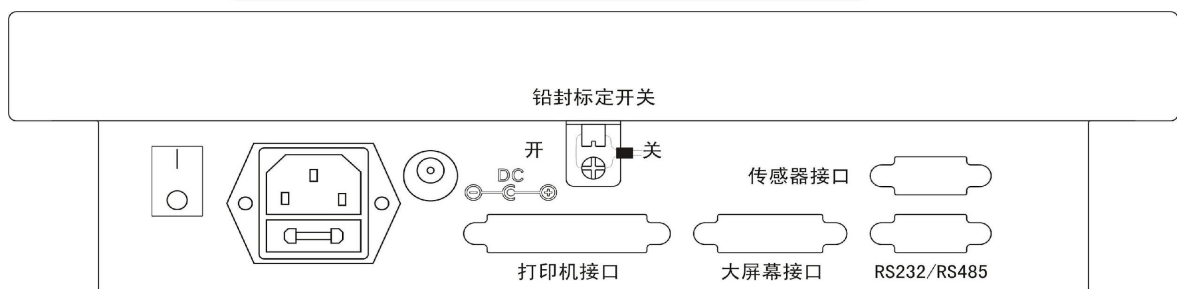
Display layout



Keyboard Layout

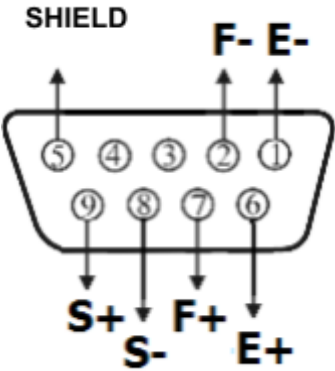


Interface Layout



2.2 Connection to Load Cell

Description			
Pin	Name	Code	
6	load cell excitation +	E+	
1	load cell excitation -	E-	
9	load cell signal input + (S+)	S+	
8	load cell signal input - (S-)	S-	
7	load cell feedback +	F+	
2	load cell feedback -	F-	
5	shield cable	SHIELD	

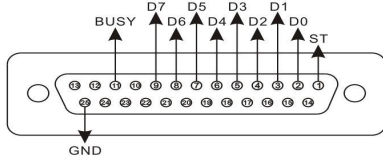


Short circuit connects pin ⑥ with pin ⑦ pin ① with pin ② when connected to load cell with 4 wires.

- ▲ ! Load cell connect with indicator must be reliable; shield wire 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

Description			
Pin	Name	Code	
1	data select communication signal	ST	
2	8 bits parallel data	D0	
3		D1	
4		D2	
5		D3	
6		D4	
7		D5	
8		D6	
9		D7	
11	"busy" signal	BUSY	
25	grounding	GND	

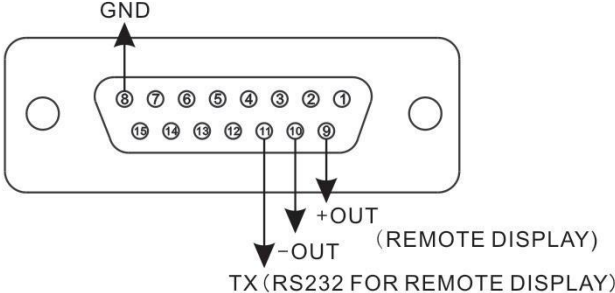


1、Print Note:

- ❖ 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

Description			
Pin	Name	Code	
8	Grounding	GND	
9	Current loop + (input)	+OUT	
10	Current loop - (output)	-OUT	
11	232 sending	TX	

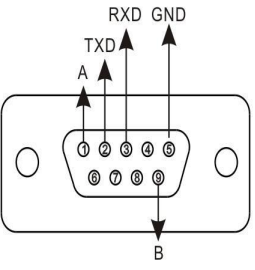


This indicator remote display output format is compatible with XK3190 remote display.

▲! 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

Description		
Pin	Name	Code
5	Grounding	GND
1	485 (A)	A
9	485 (B)	B
3	232 receiving	RXD
2	232 sending	TXD

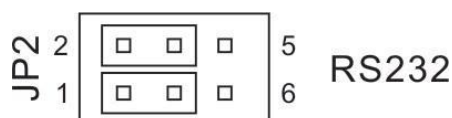


▲! Communicate port output cable and computer must be connected correctly, if

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 (JP2), the acquiescent type is RS232, the leap loop layout as below:



Indicator communication

step	oper.		Remarks
1	press[SET PRINT]	Under weight state	
2	press[9][8] press[ENTER]	[P000000] [P000098]	Input set password "98"
3	press[1] press[ENTER]	[Adr **] [Adr 01]	Communication address(01~26) For example: 1
4	press[1] press[ENTER]	[bt *] [bt 1]	Baud rate of serial communication (0-4)indicate separately: bound rate : 600、1200、2400、 4800、9600 For example : 1
5	press[0] press[ENTER]	[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.

3.0 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

3.2 Manual zero

1. Press [ZERO] key, 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 stages, [ZERO] key is available. Otherwise, [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 tared 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 [ENTER]key to confirm.

③. Transfer tare value as vehicle no.

Under weighing display state, press V. N. key indicator display [o ***.**], press number key to input the value, then press [TARE], then the indicator will transfer the stored tare value to use.

2. Under weighing display state, serial 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 [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 [ENTER] 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 display present date and run 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 Chargeable battery application.

1. Battery cable is stand part, red end shall be connected with positive pole of

battery, black end shall be connected with negative pole of battery.

2. When use battery power supply, display window right side will display battery coulometry. 3 symbol lights all bright stand for battery power enough, 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.
3. Please charge the power enough before use when the battery first application.

3.6 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 [ZERO]、[SET PRINT] is available.
3. 20 codes is equal to 1 division.

3.7 Saving of digital records

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 effectively).
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 is to be weighed instead of cargo with goods, only one saving is needed.

XK3118K9P1 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 should be a cargo No. If you set the cargo No. as 0000, the indicator will regard the cargo as goods.
- ▲ 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.
- ▲ If the cargo No. is set to be a random 5-digit number except for 00000, and the tare light is not bright, it will require 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.

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

5. Automatic saving and print:

- 1) See Print Setting Section for setting details.
- 2) No twice saving for automatic saving and print.
- 3) The cargo No. and Goods No. have been set before saving.
- 4) 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[SET PRINT] Press[9][7] Press[ENTER]	[P000000] [P000097]	Input password 97
2	Press[0] Press[ENTER]	[Auto *] [Auto 0]	Choose Auto/ Manual (0- Manual 1-Auto) eg: Choose 0 (print by hand)

3	Press[1][4] Press[ENTER]	Anto light is on [Type XY] [Type 14]	Choose printer X- if use built-in micro printer (1- use, 0- not use) Y- external printer 0—No external printer 1--TPup16 (English) 2--TM800 3—Panasonic KX-P1121 4--EPSON LQ-1600K, LQ300K + II, Panasonic KX-P1131, LQ-680K, DS-300 eg: choose 4 Note: If the indicator is common type(without internal micro printer, please set X as 0; if the indicator is with internal micro printer, please set as the requirement.
4	Press[5][0] Press[ENTER]	[HL **] [HL 50]	Choose print restrictions 00 – print after returning to Zero 25 – print after returning below the 25% o f weighing 50 -- print after returning below the 50% of weighing 75 -- - print after returning below the 75% of 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 *****] [L00100]	Set minimum printing weight of automatically printing L shall be more then 10 divisions (which is not relative with printing restriction) 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 printing format 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.

- ★ Choose to use built-in micro-printer in the printing type [Type], recording print, one sheet print and accumulating print can be printed out on micro-printer. But it can not support fill-in print; indicator will print according to set external printer type under form print setting. If set not to use micro-printer, then all printing data will be output to external printer.
- ★ After choosing built-in micro-printer, press [WEIGH] under weighing status to make built-in micro-printer paper feeding.
- ★ Please contact dealer 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 effectively).

3. If print fails due to some reason (such as printer trouble, etc), press [REPRINT] 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 [A.P.].

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 away all records. (Including all cargo No. and tare in the EMS memory)
- ②: Clear away a Vehicle No., tare and all records related to the Vehicle 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] to exit.

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 [V.N.], 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 Ways to input memory tares

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

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

Step	Actions	Indication	Remarks
1	Press [V.N]	In the state of weighing	
2	Enter vehicle No. Press [ENTER]	[o *****] [o 35790]	Enter vehicle number. 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 on the platform. When steady, press [TARE STORAGE], enter vehicle 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 Vehicle No.

3.12 Other Functions

“F1”, “F2” and “F3” are backup keys for special functions.

4.0 Maintenance and cautions

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.

4.3 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 housing.

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, power supply of indicator should be firstly switched off !

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

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

▲ ! Before connecting or disconnecting communication wire, power 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 range 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.

5.0 Information Notice

5.1 General Notice

Display	Note
Print	Please Wait. Data is transferring between indicator and printer
LoAd	Data is storing. Display time no more than 2 seconds to remind the operator.

5.2 Error Operating Notice

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	Stored vehicle number is more than 1024pcs.
Err 16	Inputted date or time is not eligible, please input correct date or time again.
Err 19	Not able to print under no weighing, minus weighing or unstable weighing status.

5.3 Error Setting Notice

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

5.5 Connection Error Notice

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(XOFF)	End

$\text{XOR Checksum} = 2 \oplus 3 \oplus \dots \oplus 8 \oplus 9$

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 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(XOFF) End

$\text{XOR Checksum} = 2 \oplus 3 \oplus \dots \oplus (n-1) \oplus n$

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 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(XOFF) End

$\text{XOR Checksum} = 2 \oplus 3 \oplus \dots \oplus (n-1) \oplus n$

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

Command A	No Data	Every Frame is formed by 6 group of data
Command 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)	
Command C	Tare, Format:	Every Frame is formed by 14 group 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 group 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 for stored printing format

Manifest Format:

Weight Bill

Serial No.	0001
Data	08-08-08
Time	20.08.00
Vehicle 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
Vehicle 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
Vehicle 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	Vehicle 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)						

Fill-in 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 No.	Time	Vehicle 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	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.	Vehicle No.	Vehicle 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	Vehicle No.	Times	Total Net
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No.			Weight(kg)
0001	088	0002	13.400
0002	033	0002	13.400

Appendix 4: Example for Printing Operation

I. Once Manual Preset Tare Printing Weight Bill

Step s	Condition	Operation	Display	Instructions
1	Goods Loading	Press[PRESET TARE]	[P00.000]	
2	Send Preset Tare Weight	Such as[1000]	[P1. 000]	
3		Press[ENTER]	[*****]	Tare off
4		Press[PRINT]	[o *****]	Former vehicle No.
5	Send Vehicle No.	Such as[00123]	[o 00123]	If former vehicle no. then press [ENTER] directly. Vehicle no. is no need to change
6		Press[ENTER]	[hn **]	Former goods no.
7	Send Vehicle 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 vehicle no.
2	Send“0”	Such as[0]	[o 00000]	“0”vehicle no. stands for goods
3		Press[ENTER]	[hn **]	Former Goods No.
4	Send Goods 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. First Empty Vehicle then Full Vehicle or first Full Vehicle then Empty Vehicle)

Steps	Condition	Operation	Display	Instructions
1	Loading Empty Vehicle (After Stable, the indicator lights	Press[PRINT]	[o *****]	Former vehicle no.

	on)			
2	Send New Vehicle No.	Such as[00123]	[o 00123]	If former vehicle no. then press [ENTER] directly. Vehicle no. is no need to change
3		Press[ENTER]	[hn **]	Former 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 Vehicle (After Stable, the indicator lights on)	Press[PRINT]	[o 00123]	Vehicle 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 vehicle then the 6th step is empty vehicle, other operation is the same.

IV. Preset Tare Auto Printing Weight Bill

Steps	Condition	Operation	Display	Instructions
1		Press[SET PRINT]	[Auto *]	Choose 1 for auto printing
2		Press[1]	[Auto 1]	
3		Press[ENTER]	[type *]	Hereinafter no need to amend
4		Press[WEIGH]	[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 Vehicle (After Stable, the indicator lights on)		[400]	Full vehicle 500, minus tare 100
9			[Print]	Auto print weight bill

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

Steps	Condition	Operation	Display	Instructions
	Vehicle Tare is Preset			Stored in indicator
1	Loading Full Vehicle (After Stable, the indicator lights on)	Press[V. N.]	[o *****]	Former vehicle no.
2	Send required Vehicle No.	Such as[00123]	[o 00123]	If same as former vehicle no. then press [TARE]

				directly. No need to send vehicle no.
3		Press[TARE]	[***]	Minus the stored tare weight
4		Press[PRINT]	[o *****]	Required vehicle 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 Vehicle Preset Tare Manual Printing Weight Bill

Step s	Condition	Operation	Display	Instructions
1		Press[V.N]	[o *****]	Former vehicle no.
2	Send New Vehicle No.	Such as[00123]	[o 00123]	If former vehicle no. then press [ENTER] directly. No need to send new vehicle 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 Vehicle Preset Tare		[.....]	Store multi vehicle preset tare. step 1 – 5
6	Loading Full Vehicle (After Stable, the indicator lights on)	Press[V.N]	[o *****]	Former vehicle no.
7	Send Required Vehicle No.	Such as[00123]	[o 00123]	If same as former vehicle no. then press [TARE] directly. No need to send vehicle no.
8		Press[TARE]	[***]	Minus the stored tare weight
9		Press[PRINT]	[o *****]	Required vehicle no.
10		Press[ENTER]	[hn **]	Former vehicle 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 (Vehicle drive away)

VII. Daily Report Printing (Three copies)

1. Print Current Daily Report

Steps	Operation	Display	Instructions
1	Press[SET PRINT]	[P00.00.00]	Printing choose
2	Press [1]	[P00.00.01]	
3	Press[ENTER]	[Print]	Print out current 3 sets of daily report

2. Print Passed Daily Report

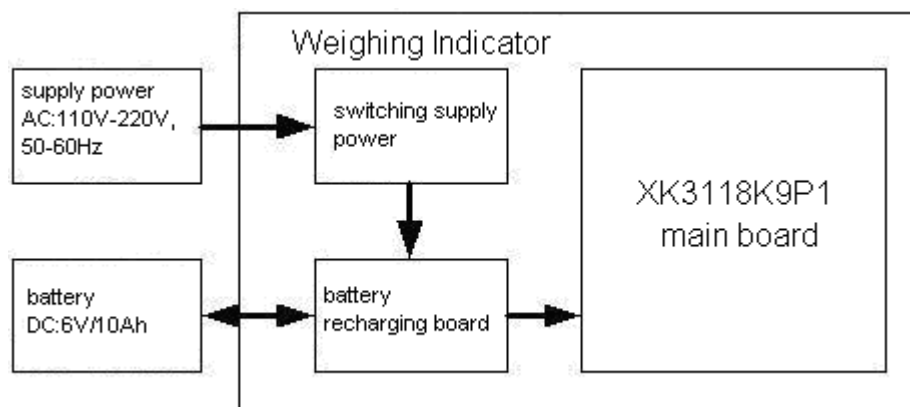
Steps	Operation	Display	Instructions
1	Press[SET PRINT]	[P00.00.00]	Printing choose
2	Press[0][8][0][8][0][8]	[P08.08.08]	Input required printing data Such as 08 day 08month 08year
3	Press[ENTER]	[Print]	Print out 3 sets of daily report of choosing day

VIII Print General Report

Steps	Operation	Display	Instructions
1	Press[SET 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: Battery Recharging Instruction

XK3118K9P1 indicator is with a battery recharging function module. 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 connection, the battery supply power circuits will be automatically cut down. Indicator keeps buzzing to give alarm to the user. When battery interface is short connected, the inside battery supply power circuit automatically cut off for protection.

Attention: This system can not guarantee the battery itself without being damaged because of short connection.