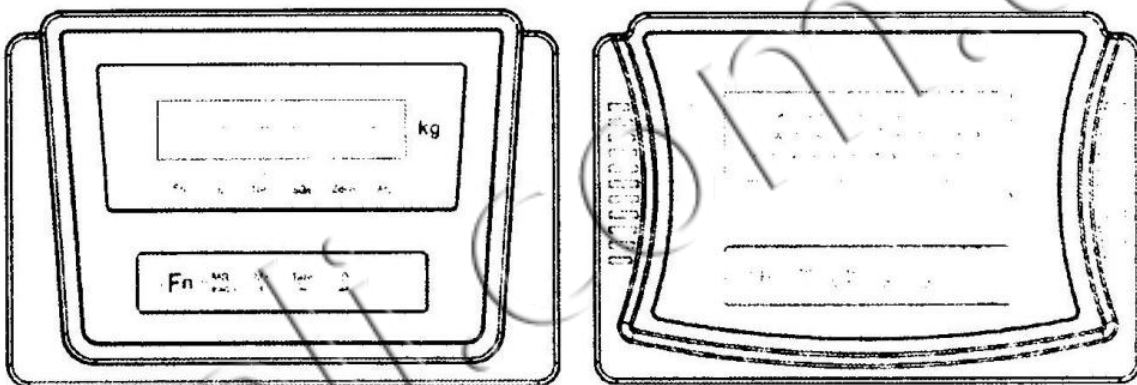


XK3118T9/-C

Weighing Indicator User Manual

2012.7



●Please read the manual carefully before use.

●Please keep the manual appropriately for future reference.

Attention In Use

- ▲ The connection between load cell and indicator must be reliable. The shield cable of load cell must be grounded firmly.
- ▲ Do not plug or unplug the connection wire while the indicator is powered up to avoid damages to indicator or load cell by static electricity.
- ▲ Indicator and load cell are static sensitive device and anti-static measures must be adopted in use.
- ▲ In the thunderstorm season, a reliable lightning protection measure must be installed to avoid damage of indicator or load cell by lightning. Make sure the safety of operator and the safe operation of weighing equipment and associated equipment.
- ▲ Do not use in the place where there is inflammable gas or vapor. Do not use in the pressure hopper system.
- ▲ Keep the indicator and load cell away from high electric field, magnetic field, strongly corrosion object and flammable object.
- ▲ Do not clean the housing with strong solvent (such as benzol and nitro oil).
- ▲ Do not inject liquid or conduction grain into the indicator to avoid damage to indicator or electric shock.
- ▲ Do not open the lead sealing without authority from department of electrical supervision. Calibration can not be done without breaking the lead sealing.

- ☆ Rechargeable battery is consumable and is not covered by guarantee.
- ☆ To prolong the life of use of rechargeable battery, be sure to use after it is fully charged.
- ☆ If the indicator won't be used for long time, it is must be recharged once in 2 months and charged for 20 hours each time.
- ☆ Be carefully while moving or installing to avoid strong shaking or impact, to prevent short circuit or damage to rechargeable battery.

- ◆ 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, otherwise we do not guarantee to repair. There is high voltage inside the indicator. Non-professional people are not allowed to repair to avoid more serious damage to system and human or accident.
- ◆ If not man-made trouble happens within one year after the date of sale, the indicator is 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.
- ◆ While it is over guarantee time, man-made trouble or other accidental damage, the manufacturer will repair with charge.

Printed version might be slightly different from product because of the improvement of product function. Please contact the manufacturer from latest version.

The right of revising this manual is preserved.

1) Technical Parameter

XK3118T9-X has 2 types displays of T9-X (LED) and T9-CX (LCD).

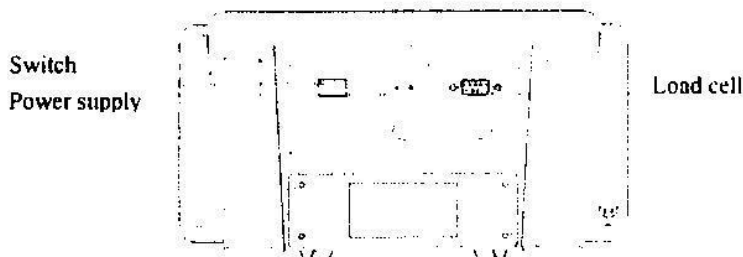
Error partition coefficient:	$p_i = 0.5$
Minimum input voltage of each division value:	$\geq 1.5\mu\text{V/e}$
A/D Conversion type:	$\Delta - \Sigma$, 20bit
Excitation voltage of load cell:	DC+ 5V; can be connected to 1~4 350 Ω strain gauge load cell
Connection type of load cell:	4 wire
Display:	T9-X, 6 digits LED; T9-CX, 6 digits LCD; 1 AC indication light
Adaptor:	AC110~220V, 50~60Hz
Auxiliary power supply:	Built-in 6V/2.5Ah maintenance-free lead-acid battery (opportunity-charging)
Working temperature: 0 $^{\circ}\text{C}$ ~ 40 $^{\circ}\text{C}$	Working humidity: $\leq 85\%$ (RH) non-condensing
Storage temperature: -10 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$	Storage humidity: $\leq 95\%$ (RH) non-condensing

2) Installation

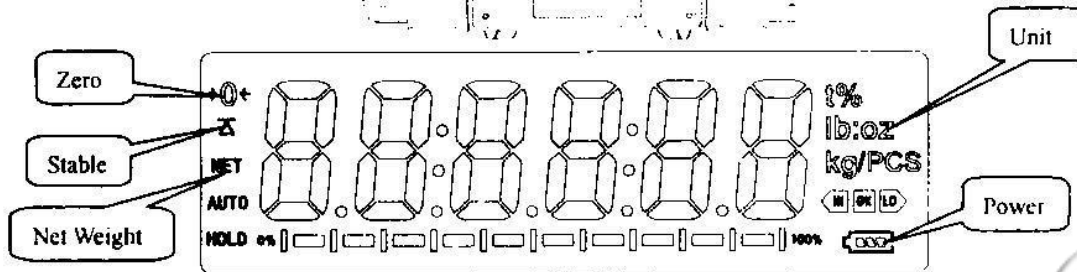
2.1 Photo of Indicator

For the sketch of front panel please see the cover T9 (Left 1), T9-C (Right 1).

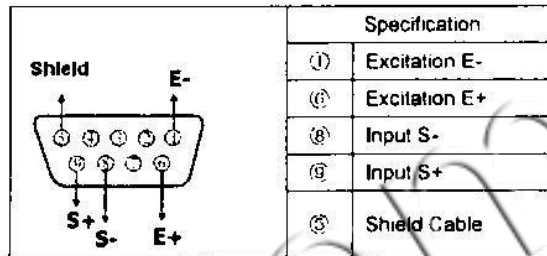
XK3118T9 General back view



2.2 LCD Display



2.3 Connection between load cell and indicator. Connection of communication wire of serial port.



- ▲ Connection between load cell and indicator should be reliable. The shield cable of load cell must be grounded firmly.
- ▲ Load cell and indicator are all electrically static sensitive equipments. Anti static measurement must be adopted during use.
- ▲ In the season of thunder, reliable thunder protection measures should be adopted to make sure the safety of operator and weighing equipment.

3) Operation Instruction

3.1 Keys

Key	Setting 1: Press under normal weighing status	Setting 2: After entering parameter setting	Setting 3:
	Enter parameter setting. See 3.6 for details.	/	/
	Check accumulation total. See 3.5 for details.	Exit parameter setting.	Exit the status of checking accumulation total
	Accumulation. See 3.5 for details.	Changed the set parameters.	/
	Tare. See 3.4 for details.	Move digit to left.	Delete accumulation data in status of accumulation display.
	Zero setting. See 3.3 for details.	Confirm the set parameters.	Confirm deleting accumulation data.

3.2 Start-up and auto start-up zero setting.

1. Connect to power and open the switch. After running the self checking, the indicator enters into weighing status.
2. If the weight is away from zero but still in the range of start-up zero setting, the indicator will set zero automatically.

3.3 Manual zero-setting (Semi-auto zero setting)

1. Press [Zero] to make the display go back to zero status and the zero indicative light will be on.
2. When the displayed value apart from zero but still in the range of zero setting, the key [Zero] can function. Otherwise the [Zero] key does not function.

3. Only when the stability light is on, zero setting can be done.
4. Under the "net weight" display, manual zero setting can not function.

3.4 Operation of taring.

1. Under weighing status and the weight is more than zero and stable, press [Tare] to reduce the current displayed weight as tare weight. At this time, the indicator display the net weight as 0 and the net weight light is on. Only when the stability indication light is on, the tare operation can be done.
2. In the weighing display status, continuous taring can be done. When the tare weight is zero, net weight light is off.

3.5 Accumulation, accumulation display and accumulation delete.

1. When the net weight is less than the minimum weighing value (5 division values) and it is stable, press "Accumulation" to accumulate the current net weight and display the accumulation value and display the times of accumulation [n ***] 3 seconds later, and exit the accumulation display status 3 seconds later. The next operation can only be done when the net weight is less than the minimum weighing value.
 2. Under the weighing status, press "Accumulation" to display the accumulation weight. Press "↑" to switch from accumulation value and accumulation times. Press "ESC" to exit to weighing status.
 3. Under the accumulation display status, press "—" and the indicator displays [CLEAR] to indicate that clear the accumulation value or not. Press "←" to clear or press "ESE" to exit without clearing data.
 4. The accumulation data will be clear after shut-down. Please backup the data.
- ### 3.6 Setting of other parameters

Under the normal weighing status, press "Setting" to enter into parameter setting. Details are as below.

Step	Option	Display	Remarks
1	Press "Fn"	[Fn SEt]	Enter parameter setting
2	"↑" to switch, "←" to confirm	[Fn ***]	[ANL]: Animal scale setting
3	"↑" to switch, "←" to confirm	[ANL***]	[oFF]: Close animal scale mode: [oN]: Open animal scale mode:
4	"↑" to switch, "←" to confirm "—" to move	[t*****]	Locking up time setting: Input time for locking up, [t 1] means 1s
5	"←" to confirm	[*]	Enter weighing status

★When the parameter setting is finished, press "ESC" to exit.

Introduction of animal scale:

Under some circumstances, weighing of live stock is needed, such as pig, cattle and sheep. Because the live animal is keep moving, the display of indicator is not stable and can not read result. And animal scale function is developed for this circumstance.

When the animal is on the scale, the indicator enters into the data calculating status; accumulating the results automatically, and locks the result according to the shown data stable range for easy reading. It will lock automatically when the weight value changing range exceeds the set stable range.

3.7 Use of Battery

1. The indicator is with 6V lead-acid battery. When adaptor is connected, recharging of battery begins and the AC light is on.
2. When the indicator is powered only by battery
 - (1) The "☐" under the LCD display will indicate the power remained in the battery. "☐" all black means power is full. As the power is consumed, the black grid disappears gradually until the "☐" indicate non-sufficient power (around 5.5±0.2V) and shut-down automatically.
 - (2) The decimal point under the LCD will indicate the power remained. When the voltage is under 5.7±0.2 V, the decimal point will flash. When the voltage is under 5.5±0.2V, the indicator will be shut-down automatically.
3. When the battery is used for the first time, make sure it is fully recharged. If the indicator won't be used for long time, the battery should be recharged one time in 2 months and each time charged for 20 hours. Be careful while moving or installing, to avoid strong vibration or impact to prevent battery from damage of circuit.

3.8 Back light control

Auto back light: back light is on when the reading is not stable. 5 seconds after it is stable, the back light will be off. When entering the parameter setting, back light will be on automatically.

4) Error Message

Display	Remark
Err 01	Out of range of zero setting
Err 02	Condition for accumulation is not meet
Err 03	Overload. Or bad conduct of load cell.
Err 06	Condition of taring is not met. Platform not stable or overload.