XK3118K5

Technical manual of Electrical indicator

Nov. 2009

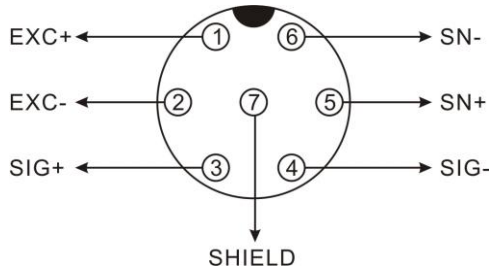
●Read the manual before using.

●Keep the manual for future reference.

I. Specification：

AD Conversion： Δ—∑，24bit
Load cell excitation： DC +5V，connect with 1~12pcs load cells with 350Ω Load
Input sensitivity： ≥1.5uV/e
cell connection mode：Adopts 6-core cable (automatically self-compensation for long wire)
Power supply: **AC** 110~220V，50～60Hz；6V/10Ah maintenance-free lead-acid battery
Temperature： 0～40℃

II. Load cell connection：



Description		
No.	Description	Code
1	Positive excitation	EXC+
2	Negative excitation	EXC-
3	Positive signature	SIG+
4	Negative signature	SIG-
5	Positive feedback	SN+
6	Negative feedback	SN-
7	Shield cable	SHIELD

If use 4 shield cable, it is necessary to connect Exi+ with F+, Exi- with F- short circuit connection.

▲! Load cell shield cable need connect to grand. The connected cable is forbidden to stick in/pull out, to avoid static electric power distrol load cell or indicator.
▲ ! Load cell and indicator are static-sensitive components. Anti-static measures should be taken during operations. It is forbidden to carry out electric welding or other strong electricity actions on the platform. In the thunder storm season, take reliable measures to avoid thunderbolt, protect the load cell and indicator from thunder damages, and make sure of personnel safety and equipments operation.

III. Calibration

Open the back cover and connect with mini jumper at the J10 area of the main board (Do not connect the power line with socket until power is off.). Then the indicator will start the calibration function. After auto-checking, it will show correct data. 15～30 minutes later after preheat, do as follows:.

Note: In the step 5, it will skip zero calibration and directly enter compensation calibration by pressing [Weigh]!!!

Step	Operation	Display	Note
	Press【Function】		（Before opening, connect with mini jumper at the J10 area of the main board）
1	Press【1】【0】 Press【Input】	【d 10】	Input division 1/2/5/10/20/50/100 optional Factory set value：10
2	Press【 0 】 Press【Input】	【dC 0 】	Input decimal (0～4) Factory set value：no decimal 0
3	Press【1】【2】【2】【4】 Press【Input】	【Pn VWXYZ】 【Pn 01224】	Input system parameters(see details behind) V: application （0：none business scale 1：business scale） W: stablity range X：zeor tracing range Y：manual zero set range Z：power on zero set range Factory set value：01224
4	Press【3】【0】【0】【0】【0】 Press【Input】	【F 30000】	Input full capacity value If need recalibration, need input F, then press【Input】; If press directly【input】, it will directly go to step 7; if press【weight】, go back to weigh status. （note：full capacity value add 9devission value equal to system preset overload alarm value.） Factory default value：30000
5	Press【Input】	【 noLoAd】	Zero position confirm, if no loading and stable , press 【Input】
6	Press【2】【0】【0】【0】【0】 Press【Input】	【AdloAd1】 【 20000】	Loading weight should be no less than 50% of full capacity. The nearer to full capacity, the better. Eg：20000 When stable symbol is on, press【Input】to confirm
7	Press【1】 Press【Input】	【Adr 01】	Communication address(01～26) Factory default value：1
8	Press【1】 Press【Input】	【bt 1】	Serial communication baud rate(0～4)stand for baud rate 600、1200、 2400、4800、9600 bps。 Factory defaoult value：1
9	Press【0】 Press【Input】	【tF 0】	Serial communication: 0—non-stop transmit(no reception) 1—respond type. Factory default value:0
10	Press【2】 Press【Input】	【Flt 2】	Baud wave strength（0～6）: 0：weakest; 6：strongest

			Factory default value : 2
11	Press【0】【1】【1】 Press【Input】	【Y XYZ】 【Y 011】	special parameter set: X: 0 weight unit is kg; 1 weight unit is ton Y: 0 data record without cargo No. 1 data record with cargo No. Z: 0 data record without truck No.; 1 data record with cargo No. Factory set value: 011
12	Press【Input】	【L 0】	3 sections of division to display lower limit, G.W Value less than this division value will switch 1 gear lower. If calibration division is 1, do not switch. Factory set value: 0
13	Press【Input】	【H030090】	3 sections of division to display upper limit, G.W Value more than this division value will switch 1 gear up. If calibration division is 100, do not switch. Factory default value 30090(full capacity+9 divisions)
14		Weigh state	Over

Note:1: in the steps of 5,6, it will skip to the next step by pressing 【weigh】 Except that, it will exit the keyboard operation and go into weighing status by pressing【weigh】.

Note 2: Pn parameter-set method:

Input value	0	1	2	3	4	5	6	7	8	9	Unit
W:stability range	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	uV
X: zero tracing range	0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	e
Y: manual zero set range	0	2%	4%	10%	20%	100%	——	——	——	——	F.S
Z: power on zero set range	0	2%	4%	10%	20%	100%	——	——	——	——	F.S

IV. Safety set

Under weigh status, press【print set】button，input password【88】，then repress【input】button，indicator will display【SECU 0】，it means it will go into safety set status；Now you can amend password and timed power-off date, steps as below:

Step	Operation	Display	Note
1	Press【1】 Press【 Input 】	【SECU 1】	Start to change password
2	Press【8】【8】【8】【8】【8】【8】 Press【 Input 】	【P888888】	Input password（factory default value: 888888）
3	Press【1】【2】【3】【4】【5】【6】 Press【Input】	【N123456】	Input new password For example: 123456
4		Weigh status	Over

If you need to change power-off date, do as below when the indicator shows【SECU 0】:

Step	Operation	Display	Note
1	Press【2】 Press【 Input 】	【SECU 2】	Start to set power-off date
2	Press【8】【8】【8】【8】【8】	【t888888】	Input password（factory default

	【8】 Press【 Input 】		value：888888）
3	Press【0】【9】【0】【9】【0】【9】 Press【 Input 】	【L09.09.09】	Input power-off date For example：090909
4		Weigh status	Over

Note 1： pls keep new password , or you can not enter again, unless turn back to factory or initialize storage COMS chip; Factory default passport “888888”

Note 2：Power-off date default value is “999999”. The timed power-off function will not available with the default value;

Note3：after the power-off date is set, user can not amend the date and time again.

V. Error information

Error	Note
Err 14	Divisions set error, please amend.
Err 15	Decimal set error, please amend.
Err 36	Computed period is due.
Ctnn 0	Under calibration steps of 5 and 6, if indicator can not adopt a stable data in 15 seconds, it will display Ctnn 0。The user needs to input 0 or 1 or 2, standing for： 0：skip into next step； 1：readopt data； 2：Calibrate by unstable data.