# XK3118T6-P Technical Manual

## 1. Main technical parameter:

Excitation voltage for load cell: DC  5V，can connect 1-4 pcs of 350Ω strain gauge load cells

Min input voltage for each verification interval  ≥1.5uV/e

Connection with load cell：use 4 wires

Power Supply：AC 110V～220V，50Hz～60Hz；Can be connect external 6V/7AH free maintenance lead-acid storage battery；(battery should be charged extra)

## 2. The connection of load cells
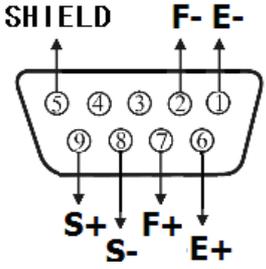


| location | description | code |
|---|---|---|
| | description | |
| 1 | Load cell negative excitation | E- |
| 2 | Load cell negative feedback | F- |
| 6 | Load cell positive excitation | E+ |
| 7 | Load cell positive feedback | F+ |
| 8 | Load cell signal input - | S- |
| 9 | Load cell signal input + | S+ |
| 5 | Shield cable | SHIELD |

If use 4 wires shield cable, must make the short circuit for positive excitation and positive feedback、negative excitation and negative feedback

## 3. Calibration method

After self-checking, the indicator enter into display interface for weighing ,keeping 15-30 minutes, then open the calibration cover at the back of indicator, dial the switch to up (calibration status)，details as following:

| Step | Operation | Display | Notes |
|---|---|---|---|
| | Press【SET】 | | Turn the switch to calibration location allowed(P2 on the mainboard is in short circuit) |
| 1 | Press【1】 Press【ENTER】 | 【d    1】 | Input Interval value:1/2/5/10/20/50/100option Default setting in factory：1 |
| 2 | Press【 0 】 Press【ENTER】 | 【dC  0 】 | Input decimal places:( 0～3) Default setting in factory：  0 |
| 3 | Press【1】【1】【1】【3】 Press【ENTER】 | 【P WXYZ】 【P 1113】 | Input system parameter (details is ref. to form 3-1) W: stable judgement range X：zero tracking range Y：manual zero setting range Z：startup zero setting range Default setting in factory：1113 |
| 4 | Press【3】【0】【0】【0】 Press【ENTER】 | 【F 3000】 | Input max capacity, Press 【ENTER】。 If need calibration, first input F value ，then press 【ENTER】;If press 【ENTER】directly then it will turn to Step 7；If press 【WEIGHING】then return back to weighing status （Note：system overload value=max capacity+9*interval value） Default setting in factory：3000 |
| 5 | Press【ENTER】 | 【 noLoAd】 | To confirm Zero, no loading is on platform now, press 【ENTER】after stable light is on |
| 6 | Press【2】【0】【0】【0】 Press【ENTER】 | 【loAd1】 【    2000】 | To load weights which should be no less than 50% of max capacity, more close to max capacity, more accurate. |

| | | | Eg.：2000<br>After stable light turn on , press【ENTER】 |
|---|---|---|---|
| 7 | Press【3】<br>Press【ENTER】 | 【Flt　3】 | Filter strength（1~3）：1：weakest；3：strongest<br>Default setting in factory：3 |
| 8 | | Weighing status | Ending calibration |

Form3-1：Setting method for Pn parameters (F.S：full capacity)

| Input Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W: stable judgement range | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | uV |
| X：zero tracking range | 0 | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | e |
| Y：manual zero setting range | 0 | 2% | 4% | 10% | 20% | 100% | — | — | — | — | F.S |
| Z：startup zero setting range | 0 | 2% | 4% | 10% | 20% | 100% | — | — | — | — | F.S |

## 4. Error information prompt

| Display | Note |
|---|---|
| Err 18 | Error in parameter setting |
| Ctnn 0 | In 5th or 6th Step during calibration, if indicator can not get stable data it will show Err 18. At the moment the operator can input 0 or 1 or 2，their functions are:<br>0：skip this step into next ;<br>1：re-collect data;<br>2：Go on calibration with these unstable data; |