XK315A_{1X} XK315A_{1GB}

INDICATOR

Operators Manual

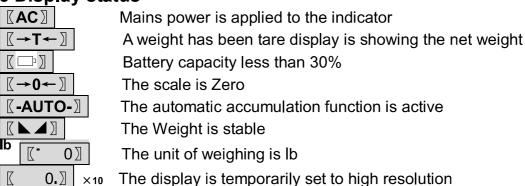
1 Introduction

- Simple operation
- Keyboard calibration and configuration
- Weighing up to 1:15,000 divisions
- Excitation voltage: DC 5V; Up to 4, 350 Ω load cells can be used
- · Manual or automatic memory accumulation facility
- High Resolution (×10) Display
- · Selectable digital filtering
- Selectable automatic power off
- 6-bit Display: 0.8 inches LED
- Selectable display resolution:
 - 1/2/5/0.1/0.2/0.5/0.01/0.02/0.05/0.001/0.002/0.005/10/20/50/100/200/500/0.10/0.20/0.50/0.010/0.020/0.050
- RS 232C The interface , optional RS 485 interface 1200 2400 4800 9600 Baud rate continuous ASCII data output
- External Power supply: 230V(115V) AC. Internal rechargeable 6V DC Battery
- Operating temperature: 0°C to 40°C. Storage temperature: -25°C to 55°C
- Relative humidity: ≤ 85% non condensing
- Dimensions: 256mm wide \times 165mm high \times 130mm deep

2 keypad functions

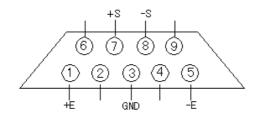
- **【STOP】** Whenever the indicator is dead locked or keeps beeping accompanied by abnormal
- (1) On/Off function
- [:] Manual accumulation function
- [*] Function selection during normal operation and configuration
- 【→】 Move the flashing digit to the right during configuration or setting Preset tare
- The display is temporarily set to high resolution increment the flashing digit during configuration or setting preset tare;
- 【→0←】Zero the display, set the zero point or enter a tare value

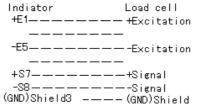
3 Display status



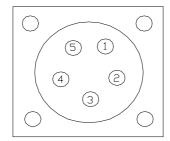
4 Technical Description

4.1 Load cells to indicator D-B 9 Pin plug





4.2 Load cells to indicator 5 Pin plug



Indicat	or Load cell
+E 1	————— +Excitation
+S 2	+Signal
-S 3	
−E 4	
GND 5	GND 5

4.3 RS-232C D-B 9

Pin 3 Output (TXD) Pin 5 Signal Ground(GND)

4.4 Continuous ASCII RS-232 data output format

4.4.1 Automatic Output

4.4.1.1 Address: Adr = 00

The ASCII data format is "=,X1,X2, X3,X4,X5,X6"

<stx> =, X1, X2, X3, X4, X5, X6 <cr>

X1, X2, X3, X4, X5, X6 is weight data.

If the weight is [100.00] kg, the continuous output is = 00.001 = 00.001

4.4.1.2 Address: Adr = 99

The ASCII data format is "=,X6,X5,X4,X3,X2,X1"

<stx> =, X6, X5, X4, X3, X2, X1 <cr>

X6, X5, X4, X3, X2, X1 is weight data...

If the weight is $\boxed{(100.00)}$ kg, the continuous output is = 100.00 = 100.00 =

4.4.1.3 Manual and Automatic Printing Output

Address: Adr = 01-98

5 Power

In power off states, press (1) key turn on the indicator. The indicator will check the LED and display battery capacity better the left second.

In power on states, press (1) key for two seconds will display battery capacity bPt 82 for 1.5 second and then powers off the indicator.

6 Configuration

Connect load cells to the indicator and set following configuration parameters

Step	Operation	Displaying	Contents
1	Press	Self test from	In power off states, press 【→0←】key and
	【→0←】 【①】	《UEr 2.6》《0》 to 《9》《 0》	【①】 turn on power, segment check, and display 【UE2.6】edition No 1.5 second.
2	Press (*) Press (*)	【CAL SP】 〖-SEt-〗	Enter of the scale Enter the configuration setting modal

	Press 【→】	〖d 1〗	The number of scale divisions selected
3	Press [1]	〖d 2〗	0.001-0.002-0.005-10-20-50-100-200-500-0.10-0.20-
		【d 0.1】	0.50-0.010-0.020-0.050-1-2-5-0.1-0.2-0.5-0.01-0.02-
	Press 【 ↑ 】	_	0.05 For example: d = 0.1
4	Press [*]	[0000]	Sets scale F • S
	Press 【→】	〖000000〗	
	Press 【→】		
	Press 【→】		
	Press 【 ↑ 】	[001000]	
	Press 【 1】	〖002000〗 〖003000〗	For example: F • S=3000
	Press 【 ↑ 】		·
5	Press 【*】	[FLt 10]	Sets digit Filter parameters :00-99
	Press 【→】	〖FLt 00〗	The display will updata faster and filter faster as
			The filter parameter is changed from 99-00 For example: FLt = 00
6	Press [*]	[AUtP00]	Sets Automatic Power Off function
	Press 【→】	《AUtP00》	AUtP=00 Not automatic power off
	Press 【→】	《AUtP00》	AUtP=01 Automatic power off
	Fiess [-]		digit express the choice of zero trace range (19):
			1:0.4 d 2:0.8 d 3:1.2 d 4:1.6 d 5:2d
			6:2.4 d 7:2.8 d 8:3.2 d 9:3.6 d
			decimal digit express the choice of zero set
		《AUtP10》	decimal digit =0 no zero set at start operation
	Press【1】	[AUIP 10]	decimal digit ≥ 1 zero set at start operation 20%FS
			For example: AUtP=10 (AUtP=10 when leaving the factory)
7	Press [*]	【Adr 00】	continuous output :Adr=00
		【b 2400】	'
8	Press [*]	【b 2400】 【b 4800】	Baud rate range: 1200→2400→4800→9600
9	Press [↑]	[1000]	For example: b=4800
	Press [*]		No :1 setpoint output Weight<1000 display LO☆
10	Press [*]	〖 2000〗	No :2 setpoint output
			1000 < Weight < 2000 display OK
		7 - 5	Weight>2000 display HI ☆
11	Press 【*】	(0)	Press to confirm configurations and go to calibration
			menu

- ★ Note: one time accumulation is allowed for weighing once. Following accumulation is allowed for weighing only when displayed value is below 20 d.
 - ☆ Optional LO—OK—HI and two setpoint output PCB
 - ☆ Press 【→】 key for two seconds, LCD display for LED are turned on(A1GB-L)

7 Calibration

Calibration should be done after setting the parameters

Step	Operation	Displaying	Comments
1	Press 【 * 】	[CAL SP]	Enters calibration
	Press 【→】	[CAL 00]	Zero the scale
2	Press [*]	[3000]	Starts zero calibration and wait for calibration to complete
3	Load the standard weight for F • S on the platform press [*]	[] [3000]	Starts calibration and wait for calibration to complete

Pressed 【 * 】 key three times during calibration or configuration, The indicator will display.

To view the A/D counts, press the 【→】 key when 【-A-d-】 is displayed

press the [*] key to return to weighing mode.

8 Zero

When the weight is stable, Press [-0] key for two seconds to set the zero point and zero the display. the [-0] status LED is turned on.

9 Tare

9.1 Digital tare

press $\{ \rightarrow \}$ key , set tare with $\{ \rightarrow \}$ and $\{ \uparrow \}$ key , then press $\{ \rightarrow 0 \leftarrow \}$ key , the input data is tare , Tare status LED is turned on.

9.2 Acquire tare

9.3 Remove tare

10 Manual weight accumulation

When weight is stable, press [:] key to accumulation the current weight to the total weight, The total number of accumulation will be displayed for [[n] 12] 1.5 seconds.

11 High resolution display mode

12 Automatic Memory Accumulation

Selection of manual/automatic accumulation function (Selection of manual /automatic print function). Selection of animal scale, peak value retain and counting function.

print	iunction). Se	election of	animal scale, peak value retain and counting function.				
Step	Operation	Displayin	Contents				
1	Press [*]	〖n 12∑	to display times of accumulation				
2	Press (*)	《AUt 0	<u> </u>				
3	Press 【 ↑ 】	[AUt 0]	digit displays with flash				

4	Press 【 ↑ 】	[AUt	0 🛚	Sets F • S
	Press 【 1】	〖AUt	1 🛮	Move binking digit to the right bit
	Press 【 1】	AUt		
		〖AUt	32	e.g. AUt=3 expresses dynamic weighing method
5	Press 【*】		0 🏻	return to normal weighing status

★ note: (1) sampling: When net weight on scale is zero (tare can be removed by pressing tare key if net weight is not zero), the sample, which must be <200 pieces, i.e. between 1 to 199, is put on the scale. Press 【 → 】 and 【 ↑ 】, input quantity of the sample (e.g.30), 〖Cnt030〗 is displayed. Press 【 * 】, confirm the completion of sampling. Weighing status is redisplayed. Sampling is memorized even with power off.

Step	operation	display	description
1	place sample		place selected sample, weight: 27, quantity:30
2	press 【 → 】	〖 Cnt000 〕	ready to input sample's quantity
	press 【→】	〖Cnt000〗	decimal digit display with flash
3	press【1】	〖Cnt010〗	
	press【↑】	〖Cnt020〗	
	press【↑】	〖Cnt030〗	
4	press 【*】	[27]	display sample's weight:27, [*] is a confirmation key, sample
			collection completed
5	press【1】	〖C 30〗	display sample's quantity, 【 ↑ 】 is change-over key betweer
			weight and quantity display

- (2) Counting operation: place the object on scale, weight is displayed, press [1],

Step	operation	display	description
1	place object	Z 230 Z	object weight:230
2	press [↑]	〖C 255〗	object quantity:255
3	press 【∴】	[n 4]	display after 1.5 seconds
		【C 255】	at counting status

(3) accumulate inquiries and delete: both at weighing stage and counting status

Step	operation	display	description
1	press [*]	【C 1203】	display the total quantity of the object:1203
2	press 【 ↑ 】	[H 0]	display accumulated weight 4 digits higher
3	press 【 ↑ 】	〖L 1085〗	display accumulated weight 4 digits lower=1085
4	press 【 ↑ 】	【C 1203】	back to counting status
5	press 【→0←〕	【C O】	delete accumulated quantity

13 Clear memory

Press [-0] key If the memory has previously been cleared the display will show [0] followed by zero weight when the [-1] key is pressed.

14 How to set datum

Press 【→】 key move and blinks the current digit to.

Press [1] key increment the current digit to the next available value

15 Battery capacity

When the indictor is being power on/off.battery capacity will be displayed [PBt 85] for1.5 seconds

- When the battery is capacity less than 20%, the display will start to blink, power off the indictor to avoid over discharging battery or connect the external main. Power supply
- When the battery capacity ≤ 10%,the indictor automatic turn off to avoid

battery over discharge

- In auto power off mode, If weight is stable and no key operation for more than >3 mints, The indictor displays [[-]] to conserve battery
- When auto power off setting is action, If weight is stable and no key operation > 30 mints automatic turn off power
- A full charged battery life is approximately 30 hours

16 Unit of weighing: (kg and lb)

kg or lb is selectable. The unit of weighing is kg normally. You can change it to lb by pressing and holding **[*]** key 2 seconds at least.

17 Connection to Mini-printers

Connect serial port printer Type Up-16TS as follows:

Indicator		Serial Port Printer
9 pin hole		25 pin needle
3	TXD	2
5	GND	

★ Note: Before connection to printer, communication address is set as Adr=01; baud rate is set as b=2400.

Print operation with serial port printer is as follows:

- 17.1.Print: at weighing status, weighing data >20d and display is stable, press [:] weighing sheet is printed out. The second printing can be operated only when the weighing data is back to <20d.
- 17.2 Accumulated print: at weighing status, press [*], then press [:], accumulated printing can be operated.
- 17.3 Set to be automatic accumulation status, i.e. automatic print.

At weighing status, weighing data>20d and display is stable, weighing sheet is printed out. The second printing can be operated only when the weighing data is back to <20d and more weight is loaded.

Attached with print sample

Normal print accumulation print

NO:1 (serial No.)

Gross: 3940kg (gross weight)

NO: 9 (number of accumulation)

W: 8225kg (accumulated weight)

Tare: 2000kg (tare weight) Net: 1940kg (net weight)

18 Precaution

- Indicator should be far away from heat resource while using.
- Do not place the indicator in the dusty surroundings or the site vibrant.
- Cannot use full capacity. Over load stops hitting platform support is not permitted.
- To ensure to keep out of chemical erosion, Operating temperature range will be
- 10-50 °C, relative humidity is no less than 85%, without any corrupt gas in air.
- Never pour the water into the indicator.
- Housing, head pallet, wire connector should be sealed entirely. Users do not open sealed device or connect with wire without any expert advice. In case any malfunction of indicator occurs, please sent the indicator for maintenance.
- The indicator will charge the internal battery at all times when it is connected to the main power.

19 Services

Offer a full range of technical services such as on site and workshop repair, Preventative maintenance and calibration facilities.

★(Battery is not in the services range)