



TD-W

WEIGHING INDICATOR

Operation Manual

1. Keypad Functions

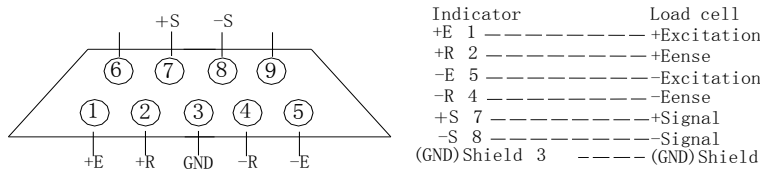
- 【 * 】 Function selection during normal operation and configuration
- 【 →0← 】 Zero display and set zero point or enter a tare value

2. Display Status

- 【 AC 】 Mains power is applied to the indicator
- 【 →T← 】 A weight has been tarred and display the net weight
- 【 →0← 】 Zero display
- 【 ▲▲ 】 Weight is stable
- ×10 The display is temporarily set to high resolution
- ^b【 - 0 】 The unit of weighing is lb

3. Technical Description

3.1. Load cells to indicator DB9 pin plug



3.2. RS-232 DB9: pin 2 Rxd Input pin3 TXD Output pin5 Signal GND

3.3. Continuous ASCII RS-232 data output format

3.3.1. 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, and X6 are weight data. If the weight is 【 100.00 】 kg, the continuous output is = 00.001 = 00.001=

3.3.2. 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, and X1 are weight data. If the weight is 【 100.00 】 kg, the continuous output is = 100.00 = 100.00=

3.3.3. Manual and Automatic Printing Output:

Address: Adr = 01, n = 3, gross = 88.69kg, tare = 29.41kg, net = 59.28kg

No:XXXX No: 3
G:XXXXXXkg G: 88.69kg
T:XXXXXXkg T: 29.41kg
N:XXXXXXkg N: 59.28kg

3.3.4. Connecting to a printer

XK315A1-0 DB9 Pin No.	Printer DB25 Pin No.
3 (TxD)	2 (RxD)
5 (GND)	7 (GND)

4. Configuration

Connect load cells to the indicator and set following configuration parameters , in power off states, press 【 →0← 】 key and turn on power, segment check, and display ,press 【 →0← 】 key, display 【 CAL SP 】, press 【 →0← 】 key, display 【 -SE- 】, press 【 * 】 key, display 【 d 0.01 】, the number of scale divisions selected, press 【 →0← 】 key to select,

0.001-0.002-0.005-10-20-50-100-200-500-0.10-0.20-0.50-1-2-5-0.1-0.2-0.5-0.01-0.02-0.05, press 【 * 】 key, display 【 150.00 】, sets F·S, press 【 * 】 key, display 【 FLt 0 】, sets digit Filter parameters: 0-1-2, display 【 AUtP10 】, sets decimal digit express the choice of zero trace range (1--9): 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, Decimal digit =0 no zero set at start operation, decimal digit ≥1 zero set at start operation 20%FS, press 【 * 】 key, display 【 Adr 00 】, continuous output, press 【 * 】 key, display 【 b 2400 】, baud rate range: 1200→2400→4800→9600, press 【 * 】 key, display 【 0.00 】, press to confirm configurations and go to calibration manual.

5. Calibration

Calibration should be done after setting the parameters, press 【 →0← 】 key, display 【 CAL SP 】, inters calibration, press 【 * 】 key, display 【 CAL 00 】, Zero the scale, press 【 * 】 key, display 【 ----- 】, Starts zero calibration and wait for calibration to complete, display 【 150.00 】, load the standard weight for F·S on the platform, press 【 * 】 key, display 【 ----- 】, starts calibration and wait for calibration to complete, display 【 150.00 】.

6. A/D Counts Display

Press 【 →0← 】 key three times, display 【 -A-d- 】, press 【 * 】 key, display 【 123456 】, A/D counts 123456, press the 【 * 】 key to return to weighing mode.

7. Restore Factory Settings

Press **【→0←】** key, display **[[CAL SP]]**, press **【→0←】** key, display **[[-Set-]]**, press **【→0←】** key, display **[[-A-d-]]**, press **【→0←】** key, display **[[FACT]]**, restore factory settings.

Factory settings: d=0.01, FS=150.00, FLt=0, AUtP=10, ADr=00, b=2400, AUt=0 and clear memory (n=0;H=0;L=0), press **【 * 】** key, display **[[0.00]]** return to weighing mode.

8. Select Display Mode

In normal weighing status, press **【 * 】** key for 2 seconds, unit of weighing is lb, press **【 * 】** key for 2 seconds, the display is temporarily set to high resolution (X10 resolution), press **【 * 】** key for 2 seconds, display number of accumulations **[[n 3]]**, press **【 * 】** key for 2 seconds, display upper 4 digits of accumulated weight **[[H 0]]**, press **【 * 】** key for 2 seconds, display lower 4 digits of accumulated weight **[[L 1085]]**, press **【 * 】** key for 2 seconds, display **[[AUt 0]]** set accumulation mode, press **【 * 】** key for 2 seconds, display **[[bt 95]]** battery capacity, press **【 * 】** key for 2 seconds, return to normal weighing status.

9. Input Data

Press **【→0←】** key for long time, the digital will increase. Press **【→0←】** key, data will move to left side.

10. Zero

When the weight is stable, press **【→0←】** key for two seconds, display **[[0.00]]**, zero status LED is turned on.

11. Tare and Remove Tare

11.1. Tare: When Tare status LED is off and the weight is stable, press **【→0←】** key to acquire tare and switch to net mode, the tare status LED is turned on.

11.2. Remove tare: When Tare status LED is on, press **【→0←】** key will switch to gross mode and removed tare. The tare status LED is off.

12. Save Power Mode (AUtP=X1)

More than 45 seconds without operation, indicator automatically reduces display brightness.

More than 30 minutes without operation, indicator automatically reduces display brightness and display **[[_]]**.

When press the button or the scale weight of the platform changes, indicator automatically returns to normal weighing status.

13. Manual Weight Additions

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.

14. Automatic Memory Accumulation

Press **【 * 】** key of six times, display **[[AUt-0]]** set accumulate mode.

14.1. **[[AUt-0]]**: Automatic accumulation is off.

14.2. **[[AUt-1]]**: Automatic accumulation is on, accumulates when weight is added.

14.3. **[[AUt-2]]**: Automatic accumulation is on, when weight is removed if you want to set auto accumulate mode.

15. Clear Accumulation

Press **【 * 】** key of three times, display **[[n 0]]**, press **【→0←】** key, clear accumulate data.

16. High Resolution Display Mode

In this high-resolution display mode (10 times normal display), the last decimal point is light on.

17. Battery Capacity

Display **[[bt 85]]** is battery capacity.

18. Low Battery Warning

When the battery is capacity less than 20% of full charge, the low battery warning **[[_]]** indicator is displayed. The indicator display **[[bAtt]]** and powers down after about 2 hours. Connect the AC adapter to recharge the battery immediately.

19. Unit of Weighing: (Kg and Lb)

kg or lb is selectable. The unit of weighing is kg normally. To change it to lb is pressing and holding **【 * 】** key 2 seconds at least.

20. Introduction

A/D resolution: 1000000, A/D sampling rate: 40 times/second, Excitation voltage: DC 5V; Up to 4PCS 350 Ω load cells or 8PCS 700 Ω load cells, high-resolution (x10) Display mode, 6-bit Display: 0.8 inches LED Selectable display resolution.

21. LED Error Code

Display **[[OUEr]]**, weight > FS + 9d, display **[[-OUEr]]**, weight < -2% FS, Display **[[Error]]**, calibration error.

Display **[[_ XXXX]]**, battery is capacity less than 20%, display **[[bAtt]]**, low battery warning to recharge the battery.

22. Services

Caisun Electronic Co. Ltd. offers 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)