

**D2008type**  
**Electronic Weighing Indicator**  
**User Manual**

Version: December. 2018

Hd read this manual carefully before using

Hd keep this manual properly for reference

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The connection between load cell and indicator must be reliable, load cell's shielding wire must be reliable grounding. Connection inserting or pull out is not allow when indicator is under the state of power, prevent electrostatic damage the indicator or the load cell .

Indicator and load cell are static sensitive equipment,anti-static measure must be taken when using, the welding operation or other high voltage operation on the weighing pad is prohibited , at the thunderstorm season, the reliable avoid measures must be implemented to prevent the lightning strike the load cell and the indicator, ensure the security of the operating personne and running of the weighing equipment and related equipment.

Can not use in the area of flammable gas or flammable vapor,also can not use in the tank weighing system with pressure.

Indicator and load cell must be away from the field with strong electric and magnet,and be away from strong corrosive substance ,be away from inflammable and explosive materials.

Using strong solvents(such as benzene,nitro-class oil)to clean the housing is prohibited.

Can not inject the liquid or other conductive particle into indicator to prevent to damage and electronic shock.

# 1 Technical parameter

## 1.Type

D D D  
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## 2.Digital load cell interface:

Communication mode RS485  
Signal transmission distance 30M when connected with 12 load cells,pls contact us if you need further  
Transmission baud rate 9600 19200bps  
Excitation power DC12~14.8V  
Digital interface ability ). a a dd dl

**3.Display** 7 digits of LED 7 digits of status symbols

## 4. Keyboard

Number Keys 0 ~ 9  
Function keys 24 pcs 10 of 24 are combined with Number keys

## 5.Clock

display year, month, date, hour, minute and second, leap year and leap month automatically.

## 6.Scoreboard display interface (electric isolated with load cell interface)

transmission mode: current loop and RS232  
Transmission baud rate: 600bps

## 7.Serial communication interface (electric isolated with load cell interface)

transmission mode: RS232  
Baud rate: Options of 600/1200/2400/4800/9600/19200

## 8.Printing interface (electric isolated with load cell interface)

With standard parallel printing interface, which can be connected with the wide line printers , such as ESPON LQ-300K ESPON LQ-300K ESPON LQ-300K ,ESPON LQ-680K ESPON LQ-730K ESPON LQ-1600K KX-P1131 KX-P1121 DS-300

## 9.Data storage

can store 1,000 groups of vehicle numbers and tare weight, 1500 groups new weighing records, 300 groups uncompleted weighing records, 6 groups overload records.

## 10. Operating environment

Power input : AC110~220V 50~60HZ  
DC 12V

Operating temperature: 0 ~ 40

Storage temperature : -25 ~ 55

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## 2 Operation instructions

### 2.1 Start-up and automatic start-up zero setting

Connect to power supply and turn on the power switch. The indicator begins self-checking. After successful self-checking, the indicator enters the weighing status.

During the start-up, if the zero point is off-set but still in the range preset, the indicator will automatically. Refer to manual of calibration for the range of start-up zero setting.

### 2.2 Manual zero setting

Zero setting function is only valid when stability light is on.

The key **ZERO** will not work when the off-set is over the range of manual zero setting. Refer to manual of calibration for the range of start-up zero setting.

Press the key **ZERO** and the indicator will return to zero and the zero light will be on.

### 2.3 Tare

D20 offers 2 types of taring.

Under the weighing status.

A: Common taring:

When the weight data is over 0 and stable, press the key **Tare** and the value displayed will be deducted as tare weight. At this time, the indicator will display value of net weight. Tare indicating light will be on and gross indication light will be off.

B: Preset the tare weight

Press the key **Preset** and the indicator will display P\*\*\*\*\*. Then input the tare weight, press **ENTER** and indicator will display original tare weight.

### 2.4 Zero tare

There are 2 modes:

A. Under the status of taring, press **ZERO** to clear the tare weight and the tare indicating light will be off. This operation will be limited by Pn parameter

B. Press **Preset**, set the tare weight is 0.

### 2.5 Date and time check and setting

	D		

## 3. The save and print of weigh result

### 3.1 The save of weigh record

- 1 This indicator asked the car No. is 5 digit(1~99999),Art.No.is 3 digit 0~200 ,
- (2) It can save 1500 group weigh records mostly, after full, will delete the earliest group result.
- (3) There are 3 ways to save the data:

① weight directly (press key save1 ) save: When you make one weight, it can make the data as one group to save and print

First preset or call the known tare weight when weighing, (press key [ save1]) storage one time to constitute a complete set of records; or weighing cargo vehicles is only a cargo (the car number is 00000 or do no use the number), (press [save 2] or [Save 1] key) one time and storage constitute a complete set of records.

Weighing twice save (press [Save 2] key): the first empty (press the [Save 2] key) storage, then full of cars (press save 2 key) storage, or the first full car (press save 2 key) save and then empty (press [save 2] key) storage, which means that after two (press save 2 key) save will constitute a complete set of records. Press [Save 2] key storage, in order to automatically identify the distinction between above , two kinds of storage, especially for the following agreements:

ad d f d f e e f f e f ) f 11111 That is to say 00000 can not be used as a real vehicle license plate number. If the license plate number is set to 00000 when you come to weighing a vehicle loading a cargo. At this point the indicator will be stored in accordance with the way.

The sign of the indicator peeled is lighting, tare known storage time will constitute a complete record.

d f d f e a f f -digit, peeled and indicator identifier does not shine (is Gross state) must be twice the storage operation can constitute a complete record.

f d f d f e a a e f f a a d f will constitute a complete record.

(4) Save operation method

Please check the appendix A detail for examples

(5! f a f d a a f a f e f to zero conditions, can not be stored, otherwise the indicator display [ Err 19] in order to prompt the operator

(6) About auto save and print

- ① Please check the print setting chapter for the setting of Auto save print
- ② when auto save print, do not have 2 save ways.
- ③ when auto save, the saved car No., cargo No. is the setted well ones before saving
- ④ There are 3 conditions for the auto save tare weight value:
  - a) When the peeled mark of indicator is lighting, store the group record as the tare weigh value
  - b) When the peeled mark of indicator is not lighting, automatically find the tare weigh value below this car No. in ram, save this tare weigh value to this group record.
  - c) When the peeled mark of indicator is not lighting, and there is no tare weight value in ram, will save in the group record as the cargo form.

### 3.2 The input method of tare weight save

The indicator can store 1500 tare values of vehicle number. There are 3 methods to input.

1. Input tare with number key: (\*: original value)

Step	Operation	Display	Explanation
1	Press V.N	Under weighing status	
2	Input vehicle number Press ENTER	o ***** o 35790	Input vehicle number. For example: 35790.
3	Input tare value Press ENTER	P ***** P 01000	Input tare weight. For example: 1000(kg).
4		Return to weighing status	End

Mark:step 2:Press

2. Save tare by weighing:

Under the weighing status, place the empty vehicle on the scale. Wait until the scale is stable, press V.N and input the vehicle number, and then press PRESET .

### 3.3 The method for Vehicle tare checking and clear


Mark:step 6 and 7:Press

### 3.4 Print of weighing record

1 Printing parameter must be set correctly before printing. (Refer to the part of printing parameter setting of technical manual)

2 The storing and printing of the indicator are simultaneous. At the same time when a group of complete record is stored with SAVE1 or SAVE2 , it will be printed out. (If the printing setup is effective, namely the model of the printer is non-zero and printing while storing is selected)

3 If the weighing record is not printed successfully because of some reason (ex.: printer fat: i1 97.344 590r 286.73 72

Steps	Operation	Display	Explanation
	Press Form		
	Press Enter	<b>Print</b>	Begin printing the form. Back to the weighing status after printing

#### 4. Vehicle No. detail list form

Steps	Operation	Display	Explanation
	Press Form		
	Press Enter	<b>Print</b>	Begin printing the form. Back to the weighing status after printing

#### 5. Cargo No. detail list form

Steps	Operation	Display	Explanation
	Press Form		
	Press Enter	<b>Print</b>	Begin printing the form. Back to the weighing status after printing

### 3.6 Inquiry and clear weighing record

3.6.1 Press Check to check the memory contents in the indicator by different modes. Operation method are as follows:

Press Check under weighing status (If check encrypt is selected, the indicator will display to ask to input the password. After the password is passed) the indicator will display **rEAd 00** to ask to enter the inquiry mode.

<b>rEAd 1</b>	Check by Date	<b>rEAd 2</b>	Check by Vehicle No.
<b>rEAd 3</b>	Check by Cargo No.	<b>rEAd 6</b>	Check/clear vehicle

Press Enter after enter the inquiry mode and the indicator will prompt to enter the required conditions for the inquiry such as date, vehicle no., cargo no., customer no., remarks no. etc. After that it will display the required records one by one.

#### 3.6.2 Example for Inquiry Operation:

**Example Inquiry according to the date, i.e, inquiry the complete records in certain date**

Step	Operation	Display	Explanation
1	Under Weighing Status Press Check		Enter code


Note:step 5-step 12,if the current weigh record do not have

Step	Operation	Display	Explanation
			...

### 3.8. Inquiry and print

The indicator can print out the record which is being inquired, the operation is as below: during inquiring and when displaying any one record , press **Reprint** to print out this inquired record. The number is 0.

## 4. Information tips

### 4.1 normal information tips

number	display	Explanation
1	-----	please wait, the inner part of indicator is under calculating, f e c f a f
2	<b>Print</b>	the data is connecting between indicator and printer.
3	<b>Load</b>	the first data storing between the 2 times of weighting
4		
5		
6		
7		
8		

### 4.2.wrong operation information tips:

number	display	Explanation
1		overloading warning, must unload all or part of loading.
2		no record under this condition
3		storing space is full with vehicle no., please delete part or all of stored tare
4		can not print the form of record by mini printer.or POS

5		Parameter setting does not meet requirements, please refer to the related parameters input range
6		Zero negative weighing or instability cannot print, do not meet back to zero conditions don't print; Storage of input parameter not meets the requirement; Discrepancy zeros conditions; Do not conform to the skin condition: unstable negative; no tare information when check vehicle number
7		time to power off
8		
9		Print date of the storage of weighing less than has the record date
10		
11		
12		
13		rinter connection error, printer error or printer didn't have paper, please add paper or press weighing key to exit

### 4.3.Other information tips

number	display	Explanation
1		
2		" "
3		
4		

## Appendix A: print operation for example:

In printing in the control parameters choose not to input car number, and money order, for in the operation of the corresponding will print skip steps, use at the same time the current meter car number and money order memory unit original data storage. If in the storage projects choose not to use car number or money order, for in the print operation when also can skip the corresponding steps, and do not store and print the corresponding project (as shown in the technical specifications chapter 6 and 6 Settings).

### 1. One manual operation preset tare print weighing list

Step	Status	Operation	Display	Explanation
1	Vehicles to weigh in	Press preset	<b>P000.000</b>	Tip input tare weight values
2	Input tare weight value	If the input [1000]	<b>P001.000</b>	
3		Press enter	<b>- 1.000</b>	Show the scale gross/net weight value, to skin FuLiang logo. Note: at this time to switch to display meter net state (according to the net/gross can switch over the show state).
4	Waiting for stability	Press Save 1 OR Press Save 2	<b>o *****</b>	Display the original car number. Hint user input new car number. Note: if user storage projects choose not to use the car number or in print control parameters choose not to enter in the car number (see

				chapter 3 "print parameter Settings" part), this step is not in the show car number and suggests the new car number input, directly to step 6
5	Input vehicle number	FOR 00123 Press	<b>o 00123</b>	
6		Press enter	<b>HN ***</b>	Display the original cargo no. ask to user enter new cargo number
7	Input money order	FOR input 001	<b>HN 001</b>	Cargo number 001
8		Press enter	<b>PriNt</b>	Print weighing list.

**Note: when the tare light is on, can go the step 4. do not need operate step 1-3 each time.**

### **2. One manual operation print weighing list**

Step	Status	Operation	Display	Explanation
1	The goods pounds, for stability	Press Save 1	<b>o *****</b>	Display the original car number. Ask user input new vehicle number
2	Input vehicle number	input 00123	<b>o 00123</b>	Enter vehicle number, such as 00123
3		Press enter	<b>HN ***</b>	Display the original cargo no. ask to user enter new cargo number
4	Input money order	FOR input 001 Press enter	<b>HN 011</b>	
5			<b>PriNt</b>	Print weighing list.

**Note: when no this vehicle number tare, indicator will imprint the GW is current value, tare is 0.**

### **3. two weighing print weighing list (namely first after the first car or empty car heavy weight after car, here to the former empty car for example)**

Step	Status	Operation	Display	Explanation
1	The empty vehicle is on weighing, for stability	Press Save 2	<b>o *****</b>	Display the original vehicle number. ask user input new number.
2	Input car number	input 00123	<b>o 00123</b>	If the new number is the same with before vehicle number, do not need to enter new one.
3		Press enter	<b>HN ***</b>	Display the original cargo no. ask user input new cargo no.
4	Input money order	FOR input 001	<b>HN 011</b>	
5		Press enter	<b>LoAd</b>	back to weighing state after 1.5 seconds
6	Heavy vehicle is on weighing, for stability	Press Save 2	<b>o *****</b>	Display the original car number. ask user input the vehicle number the same as "step 2"
7		Press enter	<b>HN ***</b>	Display the original car number. ask user input the vehicle number the same as "step 4"
8		Press enter	<b>PriNt</b>	Print weighing list

**The detail please check the**

**Appendix B Examples of breakdown and statistic form**

Breakdown ( total)

No.	Date	Time	Vehicle No.	Cargo No.	G.W. (t)	Tare (t)	N.W. (t)	
0001	05	20	06	00001	003	2.003	1.000	1.003
0002	05	20	21	00123	004	1.000	1.000	0.000
0003	05	20	41	00001	010	1.000	0.100	0.900
0004	05	20	44	00001	001	1.000	0.100	0.900
0005	05	20	45	00001	050	1.000	0.100	0.900
0006	05	20	45	00002	06	1.000	0.100	0.900
Total					G.W.	7.003 t	N.W.	4.603

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