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# **User Manual**

# PLTA3+P



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# Attention:

Please read this User's Guide carefully before using the indicator.



# Chapter I. Specification

#### 1. Model

2. Conversion technology Input signal range

> Conversion speed A/D code None-linearity Calibration Power

- 3. **Display** Display cycle Division
- 4. Clock Precision

## 5. **Keyboard** Number keys Function keys

Material of key

6. Large display port Communication method Data format Baud rate Transmission distance

## 7. Communication port

Communication method Baud rate Transmission distance

8. Print port A3+

A3+P

PLTA3+ series weighing indicator.

24 bits  $\sum -\Delta A/D$ .  $6mV \sim +22mv$ , with the protection of anti-lightning strike. 10 cps 16,000,000 < 0.01%F.S With keyboard DC 5V can connect 8 nos of 350 $\Omega$  load cell or 6 nos of 700 $\Omega$  load cell.

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7 Digit 0.8 inch LED , 7 Enunciator LED's 50ms 1/2/5/10/20/50/100 Selectable.

Can display day/month/year and second/minute/hour <u>+</u> 5minutes/year, not effected by power

0 ~ 9 24 keys (10 keys compound use with number keys ) Metal key-press

Serial output method RS232C signal 10 bits 600/1200/2400/4800/9600 optional ≤30m

RS232C signal 600/1200/2400/4800/9600 optional ≤30m

- 3 -

Standard parallel output port, can connect with LX300 + parallel printer & compatible 24 pin wide line printer Panel printer, Standard parallel output port, can connect With LX300+ Parallel printer & compatible 24 pin wide line printer





9. Data storage

AC adaptor

1000 Car No. and Tare weight, 1000 cargo No., 1000 group Weighing record

10. **Power** 

A3+: DCInternal rechargeable battery 6V 4AHBattery Backup timeAbout 40-80 hours ( After full charge )Battery charging timeAbout 8-10 hours

Input AC : 110-220 V Output DC : 8.0V 500mA

A3+P: Internal power adaptor

DC (optional) Battery Backup time

Battery Backup time Battery charging time

AC adaptor

Input AC : 110-220 V Output DC : 8.0V 1A

About 8-10 hours

Internal rechargeable battery 6V 12AH About 30-80 hours (After full charge)

Input AC :110-220 V Output DC :70V 6A

11. Operating condition

Operating Temperature0°C to 40°CStorage/transportation Temperature-25°C to 55°CRelative Humidity≤85% RHWarm-up timeNone

12. **Size** 310×195×186 (mm)

13. Weight

2.5 kg Approx



# Chapter II. Installation

## i. Front View of the Indicator



## ii. Connecting Load cell to Indicator

- 1. 5-pin round connector is used for connection of load cell and indicator.
- 2. 4-core shielded cable is used for Connecting load cells.
- 3. Precautions for Load cell:
- . ▲ ! Shielded cable must be connected to ground. If indicator is powered on, the user should not insert or withdraws the plug inorder to protect the indicator and load cell.
  - ▲ ! Load cell and indicator are static sensitive devices; you must use anti-static measures.



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### iii. Connecting the External printer to indicator

- 1. The printer interface with indicator is parallel communication mode.
- 2. Pin configuration of parallel output port is as follows.
- 3.



Precautions for external printer use:

- Connect the 25 pins printer cable correctly to the printer.
- While Turning ON the system, First Switch ON the indicator, and Switch ON the printer.
- While Switching OFF, First Switch OFF the printer, and then Switch OFF the indicator, If used in converse sequence, it may damage the indicator and printer, please take care.
- All printers are not compatibles with indicator, Please use the recommended model printers.
- Signal GND of the printer should not be connected with the Power GND Otherwise it will damage the indicator and printer.





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# **Chapter 3: OPERATING INSTRUCTION**

## i. Power on and auto zero-setting

- Connect the 3-Pin mains cord to AC plug.
- After turning ON the mains switch , turn the indicator on with the switch provided on the indicator.
- After switching ON, indicator will go through self test and display 99999 to 00000 and then go to weighing mode with the display 0.001 Γ will show Now indicator is ready to use ii. Manual zero setting: Press ZERO key to zero any unwanted weight or dust particle left on the platform iii Manual zero setting: a) Normal tare: When Indicator at weighing status, and displaying positive weight stably "Tare" key, indicator will deduct the displayed weight value Γ 0.001 as tare weight. Then indicator will display net weigh and Tare sign Enunciator LED is on. b) Preset tare: When indicator is in weighing mode, Press "Tare set" key then \*\*\*\*7 **[P**] Display will show then using numeric keys enter repaired value, then press "Enter" Key then preset tare is stored at this time tare led will be ON and Data will be in net weight mode iv Press Car No to display tare: [0] In weighing mode, press "Car No" key, the indicator will display Now press number key to input the correct Car No, then press "Tare "key, the indicator will find the corresponding tare weight for using in normal weighing condition, can tare continuously, and the tare weight is zero, the tare signal went out. when the indicator accord with zero standard,
  - press "Zero "also can make tare weight zero ,the tare signal went out.

## V Date and Time

- Press "Date "key in weighing mode display will show current date in [dyy.mm.dd]
- Format if existing date should be wrong then you can change it using numeric keys will want to exit from date mode,
- then press "enter" key and After pressing "enter "key to exit from
- date mode to weighing mode.Now Display will shows
   [ weight

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•	Press "Time "key in weighing mode. display will show current time	[ hh.	mm.ss ]
	If existing value of time is wrong then you can change it by using		
	numeric key		
•	will want to exit from time mode, press "Enter" key and after		
•	Pressing "Enter" Now display will show	[ we	eight ]
vi.	Internal code		
1.	Press "Print set "key, Display will show	[P	0]
2.	Enter 2,8 by using numeric key	[P	28]
3.	Press Enter key , indicator will go to internal counts mode with		
	the Code LED turning ON and display will show	[* *	* * * *]
	or come out to weighing mode with display will show	[	** •*** ]
	with the Code LED turning OFF		

# vii Storing the weighing record

- 1. The indicator can store total 1000 Car No, 1000 Cargo No
- 2. The Car No can be maximum 5 digits, Cargo No can be maximum 3 digits.
- 3. After store all record, and then it will print out this (if the print setting is valid).
- 4. Three method with date storing:
  - (1). First store empty Car, then store full Car.or store full Car, then store empty car.That means **two stores structure of record.**
  - (2). the full car if already knows the tare weight, One store is enough to structure a total record.
  - (3). If just a Cargo not Car, Now one store structure one total record. For just clear how to take record, We give you the example Eg
    - 1. The Car No should be the number between 00001-999999.hat means 00000 is not a Car No If Car No is 00000, this means just a Cargo not a Car.
    - 2 If the tare led is on, that means the indicator already has tare weight, so one store can structure a whole record
    - 3. If the Car No is the five digit number except 00000,And the tare LED should not ON (if under gross weight display condition), that should structure a total record with two stores.

## viii. Store operations:

- First remove weight on platform display will shows Then press "Store print" in weighing condition
   Display will show

   Then press "Car No" key display will show
   [0] \*\*\*\*\*
  - Then press numeric keys to input the Car No it is 5 digit no

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• Then press "Enter" Dislay will show

 Then input the Cargo No by using numeric keys it is 3 digits no. When data is not stable or gross weight <=0 or Net weight is<=0 you can't store</li>

## ix: About auto store and print

- Auto-store and print don't have two times store way.
- When auto-store, Between Car No and Cargo No,one have been set Print before storing.
- Auto-store tare weight has three conditions:
  - a) If the tare led ON, it will store the current tare weight into the record.
  - b) If tare LED OFF, it will search the corresponding tare weight of Car No automatically in the memory, and store the tare weight in the record.
  - c) If Tare LED is OFF, and no record in the memory of the tare weight, it will take 0 as the Tare weight.

# **X** : Accumulating

1 Accumulating operation

<ul> <li>Press "accu" key in weighing condition then display will show</li> </ul>	[Accu	*]
<ul> <li>Press "Enter "for further accumulate operation and press "weigh" key exit from accumulate operation After press "Enter" key display will show</li> <li>Finish one times accumulate, Display the total weight after accumulate,</li> <li>Pressing any key will exit from accumulate operation.</li> <li>2 Accumulate clear operation</li> </ul>	[t	*****]
After display will show	[At	<b>x</b> ]
Press "Enter"then display will show	[SUrE	0]
<ul> <li>Then press "1" display will show then clear the accumulate then press "Enter" will come back in weighing condition</li> </ul>	[SUrE	1]
3 display the total accumulate result		
After display will show	[At	X]
<ul> <li>press "check" then display will show</li> <li>pressing any key it goes back to weighing mode</li> </ul>	[t	****]
i. Printing		
<ul> <li>Press "Print Set" display will show</li> </ul>	[P	0]
• Enter 9,7 by using numeric key and now display will show	[P	97]
<ul> <li>press "Enter" display will show</li> </ul>	[Auto	*]
<ul> <li>Press numeric keys will select Auto/Manual Printing</li> </ul>		

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•	Specification of numeric keys is as follows 0-Manual 1- Auto not zero 2 Auto after zero		
	3 Auto not zero, power on again back to Manual		
	<ul> <li>4 Auto after zero, power on again back to Manual</li> <li>E.g. Press "1" then display will show         It means it will print automatically after weight             is go to zero first and then in any weight     </li> </ul>	[Auto	1]
•	Press" Enter" now display will show	[type	<b>x</b> ]
•	Select proper mode by using numeric keys press numeric keys		_
	for specific operation selection		
	it is as follows		
	Selecting printer:		
	0-invalid printing		
	1-Panel printer		
	2-EPSON LXI-300 (24 pin parallel printer)		
	<b>E g</b> Press " <b>1</b> " then display will show	[type	1]
•	Press 'Enter' key is then indicator will select panel printer		
	for printing and Now display will Show	[HL	**]
•	Then for selection specific printing restriction use numeric keys		
	It is as follows		
	0-print only when display returns zero		
	25-print only when display <25% F.S.		
	50- Print only when display <50% F.S.		
	75- Print only when display <75% F.S.		
	99 -Print even when it is at F.		
	<b>E g</b> for selection, 25% F.S. press 2, 5 then		
	display will show	[HL	25]
•	After proper operation selection, press "Enter" key display will Show	[Arr	*]
	Then it will be used for Selecting Printing format:		
	Arr=0: record format (Print in record)		
	1: 1-page format (print in singular format)		
	2: 2-page format (Print in two times)		
	3: 3-page format (Print in three times)		

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After y operation, pressing" enter" key display will sh •

press "2" then display shows

- selection and operation of 5 digits of t is as follows •
- it use only 0 and 1 •





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Eg



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\*\*\*\*\*]

[t

[Arr

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one to p 1. 2. 3.	ing format can use specialized format non-carbon paper to print same e in three shares soon. Also can use specialized format common paper orint one share soon. If you need the special format filling print, you can contact with distributors if will you want print and store process simultaneous <u>press "store</u> <u>print"to store whole record and indicator will give print of</u> <u>whole record</u> If because of some reason (such as printer has something wrong and so on),the record haven't print out, <u>you can just press</u> " <u>Add Print" to print out. the current saved record</u> . After weighing, you can press "Accu Print "to print out the accumulative value, the most can display is 999999.			
5: •	Print daily report Press "daily report" key Display will show for daily report format selection you can used-3 numeric keys. Specification of keys is as follows 1- Print daily report Statistic according to the weighing record 2- Print daily report Statistic according to the Car No.	[rbł	D	0]
	3- Print daily report Statistic according to the Cargo No.	[rbb	•	2]
•	E.g. Press"2" Display will show		, y.mm.	
•	Press "Enter "display will show Enter the date which date record is required to you	[Uy	y	uuj
•	Press "Enter" Display will shows and indicator will print the daily report according to rbb value selection of specific Date	[ ir	nt prt	]
6	Print total report			
•	Press" Total report" Display will show	[Zb	b	0]
•	For total report format selection you can use 1-3 numeric keys. Specification of keys as follows 1 -Print total report Statistic according to the weighing record 2- Print total report Statistic according to the Car No. 3- Print total report Statistic according to the Cargo No. <b>E.g.</b> Press"1" Display will show	[Zb	b	1]
		-		-
•	Press "Enter" Display will show	[	Pr in	t ]
	and indicator print the total report according to Zbb value selection	-		-
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7 .Print work report		
Press" Work report" Display will show	[bbb	0]
<ul> <li>for work report format selection you can use 1-3 numeric keys. specification of keys as follows         <ol> <li>Print daily report Statistic according to the weighing record</li> <li>Print daily report Statistic according to the Car No.</li> <li>Print daily report Statistic according to the Cargo No.</li> </ol> </li> </ul>	ſþþþ	21
E.g. Press"2"Display will show	[bbb	2]
<ul> <li>press "Enter" Display will show</li> <li>and indicator print the work report according to bbb value selection</li> <li>and Display will show</li> <li>then enter the specific requirement using numeric key 0 and 1 means</li> <li>1: means present work report is finished and goes to next work weighing report.</li> <li>0: means present work record is not finished and following work record is filling in record.</li> </ul>	[ int prt [ SUrE	] 0]
<ul> <li>After this operation press"Enter" and</li> <li>display showing</li> <li>and exit to weighing scale</li> </ul>	[ *****	]
Note! Only when the printer is type 2 the record print is valid.		
<ul> <li>8 If use twice store method that first empty car, full car or first full car then empty car, at the first store the indicator will Display</li> </ul>	[ LoAd	]
<b>9</b> For 1.5 seconds to hint you but not print because of the in-complete record.		
<ul> <li>10 But if you press "Add Print", the indicator can also print out the un-complete record. The print result is always as the following: <ol> <li>Series number is blank;</li> <li>Gross weight and net weight is zero;</li> </ol> </li> <li>Tare weight is the current weight. Displayed on the indicator</li> </ul>		

Tare weight is the current weight ,Displayed on the indicator.



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XII Clear record operation: Clear all record in the indicator by using "clear" key Press "clear then display will show Then press "Enter" then it will clear all record and now display will show The record can't resume after clear, so you should cautions to that to avoid any data loose because of error operation.	[Sure [ we	0] eight]
<ul> <li>1. Clear one day all record</li> <li>Press "Check "key display will show Then enter"1" using numeric key and Display will show</li> <li>Now press "Enter" Display will show</li> <li>Now press "Clear "Display will show</li> <li>Press "1" Display will show</li> <li>press "Enter"Indicator will clear the given date data.</li> </ul>	[rEAd [rEAd [dyy.m [SUrE [SUrE	0] 1] m.dd] 0] 1]
<ul> <li>2. Clear recorded data by specified Car No</li> <li>Press" Check" key display will show</li> <li>Enter "2" using numeric key and display will show</li> <li>Now press "Enter" display will show</li> <li>Enter proper Car No and then Press "Clear" to clear selected Car N</li> <li>Display will show</li> <li>Press "2" Display will show</li> <li>then will press "Enter" Indicator will clear the given car no record</li> </ul>	[rEAd [rEAd [o *** [SUrE [SUrE	0] 2] *** ] 0] 1]
<ul> <li>3. Clear recorded data by specified Cargo No</li> <li>Press "Check" key display will show</li> <li>Enter "3" using numeric key, Display will show</li> <li>Now press "enter" Display will show</li> <li>Press proper cargo no which you will want to delete</li> <li>Now press "Clear "display will show</li> <li>Press "3" Display will show</li> <li>Press "Enter" indicator will clear the given Cargo No data.</li> </ul>	[rEAd [rEAd [hn [SUrE [SUrE	0] 3] ***] 0] 3]



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# XIII Checking data

# 1. Check one day all record

•	Press "Check "key display will show	[rEAd 0]
	Then enter"1" using numeric key and Display will show	[rEAd 1]
	<ul> <li>press "Enter" then display will show date in</li> </ul>	[dyy.mm.dd]
	<ul> <li>press "Enter" then display will show date in</li> </ul>	[no ***]
	Press "Enter" Display will show	[thh.mm.ss]
	<ul> <li>Press "Enter Display will show car no</li> </ul>	[0 *****]
	<ul> <li>Press "Enter Display will show cargo no</li> </ul>	[hn ***]
	<ul> <li>Press "Enter" key Display will show Gross weight</li> </ul>	[A *****]
	<ul> <li>Press "Enter Display will show Tare weight</li> </ul>	[t *****]
	Press "Enter Display will show Net weight	[n ******]
	• E.g	
•	Press "Check "key display will show	[rEAd 0]
	Then enter"1" using numeric key and Display will show	[rEAd 1]
	<ul> <li>press "Enter" then display will show date in</li> </ul>	[dyy.mm.dd]
	<ul> <li>press "Enter" then display will show date in</li> </ul>	[no 001]
	<ul> <li>Press "Enter" Display will show</li> </ul>	[thh.mm.ss]
	<ul> <li>Press "Enter Display will show car no</li> </ul>	[0 *****]
	<ul> <li>Press "Enter Display will show cargo no</li> </ul>	[hn ***]
	<ul> <li>Press "Enter" key Display will show Gross weight</li> </ul>	[A *****]
	<ul> <li>Press "Enter Display will show Tare weight</li> </ul>	[t *****]
	Press "Enter Display will show Net weight	[n ******]
	<ul> <li>press "Enter" then display will show date in</li> </ul>	[no 002]
	Press "Enter" Display will show	[thh.mm.ss]
	<ul> <li>Press "Enter Display will show car no</li> </ul>	[0 *****]
	<ul> <li>Press "Enter Display will show cargo no</li> </ul>	[hn ***]
	<ul> <li>Press "Enter" key Display will show Gross weight</li> </ul>	[A *****]
	<ul> <li>Press "Enter Display will show Tare weight</li> </ul>	[t *****]
	<ul> <li>Press "Enter Display will show Net weight</li> </ul>	[n ******]
	<ul> <li>Up to nth value of Press "Enter" key Display will show</li> </ul>	[non]
	Press "Enter" Display will show	[thh.mm.ss]
	<ul> <li>Press "Enter Display will show car no</li> </ul>	[0 *****]

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<ul> <li>Press "Enter Display will show cargo no</li> </ul>	[hn ***]
<ul> <li>Press "Enter" key Display will show Gross weight</li> </ul>	[A *****]
<ul> <li>Press "Enter Display will show Tare weight</li> </ul>	[t ***** ]
<ul> <li>Press "Enter Display will show Net weight</li> </ul>	[n ******]
<ul> <li>Press"Enter" key pressing Display will show</li> </ul>	[ end ]
and checking will finish	
2 Checking weighing record with Car No	
<ul> <li>Press"Check" in weighing condition, then display will show</li> </ul>	[rEAd 0]
Select[rEAd 2] by using numeric key means	[rEAd 2]
checking weight record with Car No	F 44447
Press"Enter " key Display will show	[o *****]
<ul> <li>enter the proper Car No which you will want to check by</li> </ul>	[m ** ** ]
<ul> <li>using numeric key then press "Enter "Display will show</li> </ul>	[[p]] - ]
Press " Enter" Display will show	[no ***]
<ul> <li>Press "Enter" Display will show</li> </ul>	[dyy.mm.dd]
<ul> <li>Press "Enter" Display will show</li> </ul>	[thh.mm.ss]
<ul> <li>Press "Enter" Display will show</li> </ul>	[hn ***]
<ul> <li>Press "Enter" Display will show Gross weight</li> </ul>	[A *****]
<ul> <li>Press "Enter" Display will show tare weight</li> </ul>	[t ******]
<ul> <li>Press "Enter "Display will show net weight</li> </ul>	[n ******]
E.g.	
<ul> <li>Press"Check" in weighing condition, then display will show</li> </ul>	[rEAd 0]
<ul> <li>Select[rEAd 2] by using numeric key means</li> </ul>	[rEAd 2]
checking weight record with Car No	
<ul> <li>Press"Enter " key Display will show</li> </ul>	[O *****]
<ul> <li>enter the proper Car No which you will want to check by</li> </ul>	
<ul> <li>using numeric key then press "Enter "Display will show</li> </ul>	[p **.** ]
Press " Enter" Display will show	[no 001]
<ul> <li>Press "Enter" Display will show</li> </ul>	[dyy.mm.dd]
<ul> <li>Press "Enter" Display will show</li> </ul>	[thh.mm.ss ]
<ul> <li>Press "Enter" Display will show</li> </ul>	[hn ***]
<ul> <li>Press "Enter" Display will show Gross weight</li> </ul>	[A ***** ]
<ul> <li>Press "Enter" Display will show tare weight</li> </ul>	[t ****** ]
<ul> <li>Press "Enter "Display will show net weight</li> </ul>	[n ******]
Press " Enter" Display will show	[no 002]



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•	Press "Enter" Display will show	[dyy	.mm.d	d]
•	Press "Enter" Display will show	[thh	.mm.s	s]
•	Press "Enter" Display will show	[hn	**:	*]
•	Press "Enter" Display will show Gross weight	[A <sup>•</sup>	*****	]
•	Press "Enter" Display will show tare weight	[t	*****	]
•	Press "Enter "Display will show net weight	[n	*****	']
•	Up to nth value of records Press "Enter" key Display will show	[no	r	ן ו
•	Press "Enter" Display will show	[dyy	.mm.d	d]
•	Press "Enter Display will show car no	[thh	.mm.s	s ]
•	Press "Enter Display will show cargo no	[hn	**	**]
•	Press "Enter" key Display will show Gross weight	[A]	****	**]
•	Press "Enter Display will show Tare weight	[t	*****	۴]
•	Press "Enter Display will show Net weight	[n	*****	*]
•	Press"Enter" key pressing Display will show	[	end	]
i	and checking will finish			
3 cher	cking weight with cargo no:			
	Press "Check "key display will shows	[ rE	Ad 0	1
	Checking weight record with cargo no Press"3"by	•		-
	using numeric key Display will show	[ rE	Ad 3	]
•	Press "Enter" key Display will show	[hn	*	**]
•	Enter the proper cargo no which will you want to check			
	by using umbers key then Press "Enter "then Display will show	[n	*	** ]
•	Press "Enter" key Display will show car no	[0	***	**]
•	Press "Enter "key Display will show date	[dy	.mm.c	[bk
•	Press "Enter "key Display will show time	[ thł	າ.mm.ອ	ss]
•	Press "Enter" key Display will show gross weigh	[A	***	** ]
•	Press "Enter" key Display will show tare weight	[t	****	* ]
•	Press "Enter" key Display will show net weight	[n	***	** ]
[	E.g			
•	Press "Check "key display will shows	[ rE	EAd 0	]
	Checking weight record with cargo no Press"3"by	F F		,
	using numeric key Display will show	-	EAd 3	 
•	Press "Enter" key Display will show	[hn	7	
•	Enter the proper cargo no which will you want to check			

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by using umbers key then Press "Enter "then	_
Display will show	[n 001]
<ul> <li>Press "Enter" key Display will show car no</li> </ul>	[0 *****]
<ul> <li>Press "Enter "key Display will show date</li> </ul>	[dyy.mm.dd]
<ul> <li>Press "Enter "key Display will show time</li> </ul>	[ thh.mm.ss]
<ul> <li>Press "Enter" key Display will show gross weigh</li> </ul>	[A ***** ]
<ul> <li>Press "Enter" key Display will show tare weight</li> </ul>	[t ***** ]
<ul> <li>Press "Enter" key Display will show net weight</li> </ul>	[n ***** ]
<ul> <li>Press"Enter" key Display will show</li> </ul>	[n 002]
<ul> <li>Press "Enter" key Display will show car no</li> </ul>	[0 *****]
<ul> <li>Press "Enter "key Display will show date</li> </ul>	[dyy.mm.dd]
<ul> <li>Press "Enter "key Display will show time</li> </ul>	[ thh.mm.ss]
<ul> <li>Press "Enter" key Display will show gross weigh</li> </ul>	[A ***** ]
<ul> <li>Press "Enter" key Display will show tare weight</li> </ul>	[t ***** ]
<ul> <li>Press "Enter" key Display will show net weight</li> </ul>	[n ***** ]
<ul> <li>Press "Enter " key upto nth events Display will show</li> </ul>	[n n]
<ul> <li>Press "Enter" key Display will show car no</li> </ul>	[0 *****]
<ul> <li>Press "Enter "key Display will show date</li> </ul>	[dyy.mm.dd]
<ul> <li>Press "Enter "key Display will show time</li> </ul>	[ thh.mm.ss]
<ul> <li>Press "Enter" key Display will show gross weigh</li> </ul>	[A *****]
<ul> <li>Press "Enter" key Display will show tare weight</li> </ul>	[t ***** ]
<ul> <li>Press "Enter" key Display will show net weight</li> </ul>	[n *****]
<ul> <li>Press "Enter" key Display will show And finish the checking operation.</li> </ul>	[ End ]
4.Checking records of Car No only:	
<ul> <li>Press"Check" key Display will show</li> </ul>	[rEAd 0]
<ul> <li>Enter"4" by using numeric value Display will show</li> </ul>	[rEAd 4]
<ul> <li>Press "Enter" display will show</li> </ul>	- [no ***]
<ul> <li>Press"Enter" Display will show</li> </ul>	[O *****]

• E.g. [rEAd 0] • Press"Check" key Display will show [rEAd 4] Enter"4" by using numeric value Display will show • [no 001] Press "Enter" display will show ٠ \*\*\*\*\* ] [0 • Press"Enter" Display will show

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<ul> <li>Press "Enter" display will show</li> </ul>	[no	002]
<ul> <li>Press"Enter" key Display will show</li> </ul>	[0	*****]
<ul> <li>Upto nth value Press"Enter" key now Display will show</li> </ul>	[no	n ]
<ul> <li>Press"Enter" key Display will show</li> </ul>	[0	*****]
<ul> <li>Press "Enter" key Display will show And finish the checking of Car No records</li> </ul>	[	End ]
/ . Method to store tare weight in memory		

XIV . Method to store tare weight in memory		
The indicator cans memory 1000 tare weight in long period, there		
are three enter method:		
<ol> <li>Input tare weight with number key: (*is the default one)</li> </ol>	_	
<ul> <li>Press "Car no" in weighing condition, Display will show</li> </ul>	[0	*****]
then enter "Car no "using numeric keys		
E.g. if press Car no is 12345 then Display will show	[0	12345]
<ul> <li>Press "Enter" key Display will show</li> </ul>	[P	*******]
Enter Tare weight by using numeric keys		
Eg if tare weight is '1' display will show	[P	1.00]
<ul> <li>then press "Enter "Display will return to weighing mode and storing of tare weight will finished</li> </ul>		
<ol> <li>Weight methods to store the tare weight: Under gross weight display status, Let, the empty car on the platform, Press "Save tare" after stabilization then press "Enter "after input Car No.</li> </ol>	I	
<ol> <li>Whenever you store a record, if there isn't the store tare weight in the memory, the current tare weight will be the store tare weight of the car</li> </ol>		

to store in the memory

# XV. Connecting large display to instrument

1. The large display interface will use 15-pins serial communication Connector.

Large display is connected with RS232C communication signal,



Calibration control

Interfacing of PC and indicator connection should be correct any fault in connection is dangerous to PC and indicator.

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## Protocol 1: suitable for large display and PC communication

All data is in ASCII code 10 bits data transmission is used in which

- 1. first bit is start bit and 10<sup>th</sup> bit is stop bit.
- 2. 2<sup>nd</sup> to 7<sup>th</sup> are weighing data bits,
- 3. 8<sup>th</sup> bit is sign bit if negative weight it is '-'otherwise it is empty.
  - **E.g.** If Display weight is 100.00kg, Indicator will send: "=00.001 " if display weight if -35.000kg then Indicator will send "=000.53-".

#### Protocol 2: only suitable for PC communication

All data is ASCII code, every set of which is of 10 bits:

- 1. the 1<sup>st</sup> is starting bit,
- 2. the  $10^{th}$  is stop bit,
- 3. inbetween are 8 data bits.

Communication modes for this is as follows

#### (1). Sequential mode:

The transmitted are present gross weight data Each frame is composed of 12 sets of data. format for this is as follows:

Byte No.	Des	cription
1	02(XON)	start
2	+ or -	symbol bit
3	Weighing data	high bit
:	Weighing data :	
:	Weighing data :	
8	Weighing data	low bit
9	Decimal digits	right to left(0~4)
10	XOR verify	high 4 bits
11	XOR verify	low 4 bits
12	03(XOFF)	end

#### (2). Instruction mode:

Indicator transmits corresponding data according to Instruction of the connected computer. Every time when the connected computer delivers an instruction, the instrument will transmit a frame of data



Byte No.	Description			
1	02(XON)	start		
2	A~Z	address No.		
3	A~Z       address No.         A~E       Instruction A: handshakir         Instruction B: read gross       Instruction C: read tare         Instruction D: read net weak       Instruction E: get truck N         Order F: get cargo N			
4	XOR verification	high 4 bits		
5	XOR verification	low 4 bits		
6	03(XOFF)	end		

Transmitted content from indicator:

Byte No.		Description	
1	02(XON) start		
2	A~Z address No.		
3	A~F	Instruction A: handing	
		Instruction B: send gross weight	
		Instruction C: send tare	
		Instruction D: send net weight	
4	Transmitting corres	ponding data according to instruction	
	g e e e e		
	Transmitting corresponding data according to instruction		
n-1	Transmitting corresponding data according to instruction		
N	Transmitting corres	ponding data according to instruction	
n+1	XOR verification	high 4 bits	
n+2	XOR verification	low 4 bits	
n+3	03(XOFF)	end	

Hereunder is the 4-n content while data is transmitted from indicator:

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Instruction A	No data	Each frame is composed of 6 sets data
Instruction B	Gross weight, format a : symbol (+ or -) b : gross weight(6 bits) (from down upward) g : h : decimal digits from right to left(0~4)	Each frame is composed of 14 sets data
Instruction C	Tare , format: a : symbol (+ or -) b : tare (6 bits) (from up downward) g h : decimal digits from right to left (0~4)	Each frame is composed of 14 sets data
Instruction D	Net weight, format: a: symbol (+ or -) b: net weight data (6 bits) (from up downward) g h: decimal digits from right to left (0~4)	Each frame is composed of 14 set data

Remarks: XOR verification sum high/low 4 bits confirmation:

- i) If XOR verification sum high/low 4 bits ≤9: add 30h to become ASCII, and then sent out when XOR verification sum high 4 bits=6, add 30h, then become 6 in ASCII and sent out.
- ii) if XOR verification sum high/low 4 bits >9, add 37h, then become ASCII to be sent out. For example: When XOR verification sum high 4 bits=B, add 37h, then become 42h, i.e., B of ASCII to be sent out.

## Protocol 3: only suitable for large display communication

Each frame data have 11 bits

- ii) 1 start bit 0
- iii) 8 data bit low in front
- iv) 1 symbol bit
- v) 1stop bit 1,

Each group data with 3 frame data, meaning as following

a) First frame



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- II. baud rate,
- III. communication mode.
- (2) Connect the load cell to the Indicator & then Switch ON the Indicator, while in Normal weighing mode Plug-in the 15 Pin D-Connector

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(Male) on the Indicator back.

(3) Communication parameter setting step:

<ul> <li>Press "Cal" key display will show.</li> </ul>	<b>[</b> C	0]
<ul> <li>Press "5" (by default calibration passwords is 5) then Display will show</li> </ul>	<b>[</b> C	5]
<ul> <li>press "Enter" Then display will show</li> <li>Press "Enter" to goes next step</li> </ul>	[E	***]
<ul> <li>After pressing "Enter" display will show for using numeric keys setting the parameter</li> <li>Press" Enter" key</li> </ul>	[dc	* ]
<ul> <li>And display will show Press only "enter" key for going to next statement.</li> </ul>	[F <sup>*</sup>	*****]
Now Display will show	[pn	****]
<ul> <li>Press only "enter" key for going to next statement.</li> <li>Now Display will show</li> <li>And value of address can be changing from</li> </ul>	[Adr	*]
<ul> <li>1 to 26 by using numeric value after proper selection press '3' then indicator will go to be show</li> <li>in baud rate mode and</li> </ul>	[Adr	3]
Display will show	[btc	*]
<ul> <li>Press only "enter" key for going to next statement Now Display will show</li> </ul>	[tfc	*]
<ul> <li>press "Enter" then display will show</li> </ul>	[tfc	נ *]
<ul> <li>Press only "enter" key for going to next statement.</li> </ul>	Luc	
Now Display will show	[btd	*]
<ul> <li>press" enter" now display will show</li> </ul>	[tdf	*]
<ul> <li>Press only "enter" key for going to next statement.</li> <li>Now Display will show</li> </ul>	[flt	*1
<ul> <li>Press only "enter" key for going to next statement.</li> </ul>	<b>L</b>	1
Now Display will show	[у	*****]
<ul> <li>Press only "enter" key for going to next statement.</li> </ul>	<b>F</b> 4	****7
<ul> <li>Now Display will show</li> <li>Press only "enter" key for going to next statement.</li> </ul>	[t	l
Now Display will show	[b	*****]
<ul> <li>Press only "enter" key for going to next statement.</li> </ul>	•	-
Now Display will show	[C	*****]
<ul> <li>Press only "enter" key for going to next statement.</li> </ul>		

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\*\*\*]

[n

Now Display will show

 Press "Weigh" key display will come back in the weigh mode and communication completed

#### iv. Communication protocol

Precaution in connection and installation of Communication port

• Make sure that communication interface output port

Of indicator and computer input port should be

Connected correctly .something wrong with

connection, damage will happen to output

port of indicator and input port of computer

Necessary computer technology and programming

expertise is required for computer communication,

which should be carried out by professionals.

## XVI. Thermal printer operation

#### 1. Modification for printing darkness' [rEAd. 01 In weighing mode, press "Check "key, display will show Press "F2" to enter into darkness modification interface, [GrAy. \*] display will show 1-9', press number key to modify, and "Enter" to confirm this function is available just for A3+P, Note: it will reduce the life of thermal printer if set high • Printing darkness. Pls modify under Professional instruction, the default setting is (Default setting is 5) 2. Modification of machine speed In weighing mode, press "Check" key, 01 [ReAd. Display will show Press "Set point" to enter into machine speed [ notor 1 modification interface 0-99, press number key and "Enter" to confirm. the speed after modification is (1+N) /100.as times as default setting, N is the data of imputing E.G.Press"0 to 99 number if Press"22" Display will show Inotor \*\*\*\*\* Press "Enter" come back to weighing mode Display will show

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Note: this function is available for A3+P, adjust printing speed to solve Printer jam problem when temperature falling down, please Increasing printing darkness when reducing printing speed.

### 3. Thermal printer paper feed

In weighing mode, press "F2"to execute this operation.



# chapter 4 Maintenance and Announcements

- 1. To guarantee the clarity and using life, the indicator shouldn't be placed directly under sunshine and should be placed in the plain space .
- 2. The indicator should avoid dust pollution, vibration and moisture.
- 3. Load cell should connect with indicator reliably, and the system should be connected into ground properly. The indicator must be detected from high electrical fields.
  - In order to protect the operator, indicator, and relevant device, you should mount lightning rod in thunderstorm frequently happening area.
  - Load cell and indicator are static sensitive devices, you must adopt anti- static measures.
- 4. It is strictly forbidden to clean the case of indicator with intensive solvents (for example: benzene and nitro oils)
- 5. Liquid and electrical conducting particles should not pour onto the indicator, otherwise the electronic components will be damaged and electric shock is likely to happen.
- 6. You should cut off power supply of indicator and relevant device before you pull-in and out the connecting line of indicator and external device.
  - You must cut off power supply of the indicator , before you plug the connecting line of the load cell in and out.
  - You must cut off power supply of the indicator and the printer, before you plug in connecting line of the printer.
  - You must cut off power supply of the indicator and the large display, before you plug connecting line of the large display in and out.
  - You must cut off power supply of the indicator and the master computer, before you pull connecting line of communication in and out.
  - You must cut off power supply of the indicator and external connecting system, before you pull connecting line of control output in and out.
- 7. The user should return this indicator to our company for repair. Non-weighing manufacturer should not repair it, or by you, otherwise further destruction may occur.
- 8. From invoice date, the indicator has a total one-year free repair period. If any non-artificially obstacle about the indicator occurs while under correct using conditions within the period, the user is allowed to send the product with its guarantee card (of the correct number) back to our corporation for free repair.
- 9. The indicator shouldn't be taken apart, otherwise free guarantee will be cancelled.



1

2

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# i. Normal information

- ......... Wait a moment, and this is a normal display.
  - Wait a moment, the data are being transmitted between indicator and printer.
- 3 **LoAd** Storing data, it will indicate for not less than 2 seconds to prompt the operator.

# ii. Error information indicating

- 1 –ADC- load cell have fault
- 2 -OVF-- Overload warning, offload some or total loading
- 3. Err 18 Print limits
- 4 Err 19 Zero or Negative weight value, can't be printed.
- 5 Err 16 Date or Time is illegal. Enter right date and time
- 6 Err 09 This Car No does not exist.
- 7 Err 10 The Car No restored exceeds 1000.
- 8 Err 17 Entered value over permitted value, enter value again
- 9 Err 24 Do not put calibrate jumper under general state
- 10 Err 26 data CRC checkout wrong, not accepted by indicator, it will use the original data
- 11 Err 27 the entered data is not legal, enter again
- 12 Err 28 the entered calibration data is not legal(example-the division is too low), data is not accept by the indicator
- 13 Err 29 the loading is not enough for calibrate, please enter right data
- 14 Err 30 wrong calibrate data, please calibrate again
- 15 Err 31 save tare under Zero or Negative weighing
- 16 Err 32 daily report form wrong, no that day's data in indicator's EMS memory
- 17 Err 33 accumulating overload

# iii. Wrong connection information indicating

**Prt-Err** It means the printer has trouble or is wrongly connected. Push any key to quit, connect the printer again or change the printer.



# CHAPTER 6 : Print format

# Bill print format for external printer (EPSON LXI-300+)

Weight bill			
Serial No.	0001		
DATE	2004-07-28		
TIME	12.02.31		
Car No.	12345		
Cargo No.	022		
GROS S	2.000(kg)		
TARE	0.300(kg)		
NET	1.700(kg)		

١	Weight bill				
	Serial No.	0001			
	DATE	2004-07-28			
	TIME	12.02.31			
	Car No.	12345			
	Cargo No.	022			
	GROSS	2.000(kg)			
	TARE	0.300(kg)			
	NET	1.700(kg)			

w	Weight bill				
	Serial No.	0001			
	DATE	2004-07-28			
	TIME	12.02.31			
	Car No.	12345			
	Cargo No.	022			
	GROSS	2.000(kg)			
	TARE	0.300(kg)			
	NET	1.700(kg)			

### Record print format

#### WEIGHT BILL

#### 2004-07-28

Serial	TIME	Car No.	Cargo	GROSS (kg)	TARE (kg)	NET (kg)
No.			No.			
0002	12.03.24	12345	033	2.000	0.300	1.700
0003	12.03.24	00888	033	2.000	0.300	1.700
0004	12.04.11	00888	022	2.000	0.300	1.700
Total gross weight 8.000(kg) net weight 6.800(kg)						

#### print format (finish print within 5 seconds)

	WEIGHT	BILL		
	Opera	tor		
SERIAL No.		123		
DATE		2004-0	)7-28	
TIME		12 .35	.28	
Car No.				
Cargo No.				
GROSS		1580	kg	
TARE		80	kg	
DISCOUNT		10	%	
NET		1350	kg	
REMARK				



### ii. Appendix 2:Print sample

#### 1. Once tare set print weight bill by hand:

		gint kin ky nanan		
Step	State	operate	display	Explanation
1	Loading cargo	Press [tare set]	[P00.000]	
2	Enter tare set	For example	[P1. 000]	
	weight	[1000]		
3		Press [Enter]	[ *****]	Subtract the tare weight
4		Press [Store Print]	[O *****]	Original car No.
5	Enter Car No.	For example	[o 00123]	If need original car No.,
		[00123]		directly press [Enter] No
				need to change the car No.
6		Press [Enter]	[hn **]	Original Cargo No.
7	Enter Cargo No.	For example [ 11 ]	[hn 11]	If need original cargo No., directly press [Enter]□No need to change the cargo No.
8		Press [Enter]	[Prnt]	Print weight bill

#### 2. Once direct print the cargo weight bill by hand

		le neight sin sy hand		
Step	State	operate	display	Explanation
1	Loading cargo	Press [Store Print]	[0 *****]	Original car No.
2	Enter "0"	For example[0]	[o 00000]	"0"car No. means weigh the
				cargo
3		Press [Enter]	[hn **]	Original Cargo No.
4	Enter Cargo No.	For example [ 11 ]	[hn 11]	If need original cargo No., directly press [Enter]□No need to change the cargo No.
5		Press [Enter]	[Prnt]	Print weight bill

#### 3. Print weight bill: save twice, empty first then laden car or laden first then empty car

Step	State	operate	display	Explanation
1	Empty car on scale	press[Store Print] after stable	[0 *****]	Original car No.
2	Enter new car No.	For example [00123]	[o 00123]	If need original car No., directly press [Enter] No need to enter new car No.
3		Press [Enter]	[hn **]	Original Cargo No.
4	Enter new cargo No.	For example[ 11 ]	[hn 11]	If need original cargo No., directly press [Enter]⊟No need to enter new cargo No.
5		Press [Enter]	[LoAd ]	Exit to weighing sate after 1.5 seconds
6	Laden car on scale	press[Store Print] after stable	[o 00123]	car No. entered in step 2
7		Press [Enter]	[hn 11]	cargo No. entered in step 2
8		Press [Enter]	[Prnt]	Print weight bill

Note if the step 1 is laden car, then step 6 will be empty car. Other step are the same

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#### 4.Tare set and auto print weight bill

Step	State	operate	display	Explanation
1		Press [Print set]	[Auto *]	Select 1for auto print
2		Press [1]	[Auto 1]	
3		Press [weigh]	[type *]	Following no need to change
4		Press [weigh]	[ 0000 ]	Exit to weighing state
5		Press [tare set]	[P ***]	
6	Enter tare set	Enter for example	[P O0100]	
		[100]		
7		Press [Enter]	[ -100]	
8	Laden car on		[ 400]	Laden car weight
	scale □ wait for			500 subtract net weight 100
	stable signal light			
	on			
9			[Prnt]	Auto print weight bill

#### 5. Load the tare according the car no. and print weight bill

Step	State	operate	display	Explanation
	Tare and car No. is set already			Indicator have saved up
1	Laden car on scale⊡wait for stable signal light on⊡	Press [car No.]	[o *****]	Original car No.
2	Enter the needed car No.	For example [00123]	[o 00123]	If car No. is correct, directly press [tare]□No need to enter new car No.
3		Press [tare]	[ *** ]	Subtract the saved tare weight
4		Press [Store print]	[0 *****]	Right car No.
5		Press [Enter]	[hn **]	Original cargo No
6	Enter new cargo No.	For example [11]	[hn 11]	If cargo No. is correct, directly press [tare]□No need to enter new cargo No.
7		Press [Enter]	[Prnt]	Print weight bill
8	Display negative	Press [tare]	[ 000 ]	Exit to weighing state

#### 6.Enter tare set for many cars and print weight bill by hand:

	i tare set for many cars and p			
Step	State	operate	display	Explanation
1		Press [car	[0 *****]	Original car No.
		No.]		
2	Enter new car No.	For	[o 00123]	If need the original car No.,
		example		directly press [Enter] no
		[00123]		need to enter new car No.
3		Press	[P *****]	Tare set
		[Enter]		
4	Enter tare set	For	[P 100]	
		example		
		[100]		
5		Press	[ 000]	Exit to weighing state
		[Enter]		
	Store many cars tare set		[ ]	Set may cars' tare. Step



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				1□5
6	Laden car on scale □ wait for stable signal light on □	Press [car No.]	[0 *****]	Original car No.
7	Enter the needed car No.	For example [00123]	[o 00123]	If car No. is correct, directly press [tare] □ No need to enter new car No.
8		Press [tare]	[ ***]	Subtract the saved tare weight
9		Press [Store print]	[0 *****]	right car No.
10		Press [Enter]	[hn **]	Original cargo No.
11	Enter new cargo No.	For example [ 11]	[hn 11]	If cargo No. is correct, directly press [tare] No need to enter new cargo No.
12		Press [Enter]	[Prnt]	Print weight bill
13	Display negative	Press [tare]	[ 000 ]	Exit to weighing state(car move away)

#### iii. Appendix 3

	Daily repo	ort 1	Ċ	date:2004-07-28		
Serial No.	TIME	Car. No.	Cargo	GROSS(kg)	TARE(kg)	NET(kg)
0002	12.03.24	12345	033	2.000	0.300	1.700
0003	12.03.24	00888	033	2.000	0.300	1.700
0004	12.04.11	00888	022	2.000	0.300	1.700
Total gross weight 8.000(kg) net weight 6.800(kg)						

#### Daily report 2

date 2004-07-28

Serial No.	Car. No.	Car weight (kg)	times	Total weight(kg)	Total net weight (kg)
0001	12345	0.300	0002	4 000	3□400
0002	00888	0.300	0002	4 000	3□400

Daily report	3	<b>date</b> 2004	-07-28
Serial No.	Cargo No.	times	Total net weight(kg)
0001	022	0002	3.400
0002	033	0002	3.400

		Work rep	oort 1	<b>date</b> 200	4-07-28	
Serial No.	TIME	Car. No.	Cargo	GROSS(kg)	TARE(kg)	NET(kg)
0001	12.03.24	12345	033	2.000	0.300	1.700
0002	12.03.24	00888	033	2.000	0.300	1.700
0003	12.04.11	00888	022	2.000	0.300	1.700
Total gross weight 8.000(kg) net weight 6.800(kg)						

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		Work report 2	dat	<b>e</b> □2004-07-28	
Serial No.	Car. No.	Car weight (kg)	times	Total weight(kg)	Total net weight (kg)
0001	12345	0.300	0002	4 000	(Kg) 3⊡400
0002	00888	0.300	0002	4 000	3□400

	Work report 3	3 date⊡	2004-07-28
Serial	Cargo No.	times	Total net weight(kg)
No.			
0001	033	0002	3.400
0002	022	0002	3.400

				Total r	epor	rt 1			
Serial No.	TIME	Car. No.	Cargo	GROSS(	Т	ARE(kg)	NET	(kg)	Serial No.
			No.	kg)					
0001	2002-06-26	08.04.40	12345	011		20.00	1.0	00	19.00
0002	2002-06-26	09.20.05	13456	022		20.00	2.	00	18.00
0003	2002-06-26	10.20.50	32345	033		20.00	2.	00	18.00
Total	Total gross weight 60.00 (kg) net weight 55.00 (kg)								
	Total report 2								
Serial N	o. Car. No.	Car wei	ght (kg)	times		Total weig	ght(kg)	Total	net weight (kg)
0001	23456	5.0	00	0003		58.0	0		28.00
0002	34567	3.0	00	0003		58.0	0		28.00
0003	12356	6.0	00	0003		58.0	0		28.00
	Total report 3								
Serial N	o. Carg	jo No.	lo. times			Total net weight(kg)		:(kg)	
0001	0	11	0003		28.00				
0002	0	22	0003		28.00				

### Total report 4

Serial No.	Car No.	Gross weight(kg)
0001	12456	5.00
0002	23567	8.00
0003	31235	9.00

0003

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033

0003

28.00



# Print out of panel printer

Print 1:

[Total Report ] [Zbb 1] [ENTER ]

Tot	al Report 1	
Date	CarNo Time	
Gross(kg)	Tare(kg)	Net(kg)
0001 09-12-31	12345 02:39	
5.72	3.32	2.40
0002 10-01-02	12346 02:40	
5.72	0.00	5.72
10-01-04 11.44	12359 02:40 0.00 s 22.88	):59 11.44
Total Net	19.56	(kg)

# Total print 2: [Total print][Zbb 2] [Enter]

To	otal Report 20	2 )09-12-31
NO	CarNo	CarWeight(kg)
Time	AccGros	ss(kg) AccNet(kg)
0001	12358	3.32
0003	5.72	2.40
0002 0001	12456 5.72	0.00 5.72
0003 0002	50000 5.72	0.00 5.72



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### Total Print 3 [Total print] [Zbb 3] [Enter]

Total	Report 3 2009-12-31
NO	Cargo
Time	AccNet(kg)
0001	123
0001	2.40
0002	126
0001	5.72
0003	128
0005	11.47

## Total print 4:

# [total Print][Zbb 4][Enter]

Total Report 4 2009-12-31			
NO	CarNo	Tare(kg)	
0001 0002	12345 12347	3.32 5.72	



# Print format of daily Print

1. Daily Print 1

# [Daily Print] [rbb 1] [Enter]

	Date Report 1 2009-12-31
No	CarNo Cargo
Date	Time
Gross(kg)	Tare(kg) Net(kg)
0001	20001 200
09-12-29	17:55:28
100.00	0.00 100.00
0002 09-12-29 500.00	
09-12-29	0.00 75.08
75.080	ss 675.080 (kg)

## Daily report print 2: [Daily print][rbb 2][Enter]

D	ate Report 2	2 )09-12-31	
NO Time	CarNo		
0001 0002	12358 5.72	3.32 2.40	
0002 0001	12456 5.72	0.00 5.72	
0003 0001	50000 5.72	0.00 5.72	



# Daily Report 3: [Daily print][rbb 3][Enter]

Total Re	port 3 2009-12-31
NO	Cargo
Time	AccNet(kg)
0001	123
0001	2.40
0002	126
0001	5.72
0003	128
0005	11.47

#### Print format of work Report: 1. work report 1 [Work print][bbb 1][Enter]

Tot	al Report 1	
NO	CarNo	2009-12-31
Date	Time	
Gross(kg)	Tare(kg)	Net(kg)
	12345	120
09-12-31		
5.72	3.32	2.40
0002	12346	123
10-01-02	02:40	:35
5.72	0.00	5.72
0003	12359	125
10-01-04	02:40	0:59
11.44	0.00	11.44
	s 22.88	( 3)
Total Net	19.56	(kg)



## Work Report 2: [work report][bbb 2] [Enter]

-		-
10	otal Report	2 )09-12-31
NO		CarWeight(kg)
Time		s(kg) AccNet(kg)
0001	12358	3.32
0003	5.72	2.40
0002	12456	0.00
0001	5.72	5.72
0003	50000	0.00
0002	5.72	5.72

### Work report 3: [work print][bbb 3][Enter]

Total Report 3 2009-12-31		
NO	Cargo	
Time	AccNet(kg)	
0001	123	
0001	2.40	
0002	126	
0001	5.72	
0003	128	
0005	11.47	

# Accumulate print format [accu][Enter]

Total Gross 200.160 Total Net 199.160



## Store Print format (weight Bill)

## [store print][Enter]

Weight Bill			
NO	0001		
Date	2010-01	1-16	
Time	02:39:4	7	
Car No	12345		
Cargo	120		
Gross	5.72	(kg)	
Tare	1.00	(kg)	
Net	4.72	(kg)	

### 1 -page print format [Arr 1][Enter]

Weight Bill			
NO	0001		
Date	2010-01	1-16	
Time	02:39:47	7	
Car No	50000		
Cargo	120		
Gross	100.00	(kg)	
Tare	1.00	(kg)	
Net	99.00	(kg)	
		(5)	

## 2 -page print format [Arr 2][Enter]

NO Date Time Car No Cargo Gross Tare Net	Weight Bill 0001 2010-01-16 02:39:47 50000 120 100.00 (kg) 1.00 (kg) 99.00 (kg)	
W NO Date Time Car No Cargo Gross Tare Net	Veight Bill 0001 2010-01-16 02:39:47 50000 120 100.00 (kg) 99.00 (kg)	)



€agl€

# 3 page print format

W NO Date Time Car No Cargo Gross Tare Net	1.00 (k	s kg) g) g)
We	ight Bill	
NO Date Time Car No Cargo Gross Tare Net	0001 2010-01-1 02:39:47 50000 120 100.00 1.00	(kg) (kg) (g)
W/	eight Bill	
NO	0001	
Date	2010-01-1	6
Time Car No	02:39:47 50000	
Carloo	50000 120	
Gross	100.00	(kg)
Tare	1.00	(kg)
Net	99.00 (k	.g)