NPS Series
Pallet Jack Scale

Operator's Guide (V1611)

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1.   Introduction

Thank you for choosing Anyload NPS Series Pallet Jack Scale. Anyload pallet jack scales serve as a normal pallet jack while also performing the function of a scale with the added feature of a built-in indicator as an integral part of the scale body. The indicator is featured with auto calibration, auto-off, auto charging control function, counting function, low voltage indication and RS232 communication port. The NPS series pallet jack scales are made of alloy steel and are widely used in warehouses as an effective means of weighing a pallet.

This manual provides the user's guide in using the product, safety, installation and operation of the scale. In order to use the scale properly, please read this manual carefully before use. If you have any problem with scale, please contact your supplier. You can secure a copy of this manual at our website at www.anyload.com.

2.   Instructions for Use

1) Please keep the scale in a cool dry place. Do not store it at high temperature.
2) Do not allow any liquids to come into contact with the scale. If necessary wipe the scale with a dry soft cloth.
3) Avoid objects impacting with the scale. Do not drop loads onto the scale or subject the weighing pan to any strong shock loads.
4) The load placed on the weigh pan must not exceed the maximum weighing capacity of the scale.
5) If the scale is not going to be used for some time, please clean it and store it in a plastic bag in dry conditions. A desiccant sachet may be included to prevent any moisture build up.

3.   Preparing the Scale

1. Avoid operating the scale in direct sunlight or drafts of any kind.
2. If possible avoid connecting the scale to ac power outlet sockets which are adjacent to other appliances to minimize the possibility of interference affecting the performance of the scale.
3. Remove any weight that might be on the weigh pan before the scale is switched on and avoid leaving weight on the pan for long periods of time
4. All goods weighed should be placed in the centre of the weigh pan for accurate weighing. The overall dimensions of the goods being weighed should not exceed the dimension of the weigh pan.

5. Once the scale has been powered on, it will go through an LCD display test and it is ready for use when the display shows zero.

6. The scale requires about 15 minutes warm up before operation to ensure best accuracy.

7. Please note when the battery symbol keeps on the screen, the batteries need to be charged

4. Operation

4.1 Features and Specifications

*Large LCD display (digit height 30mm x 13mm) with LED backlight
*Kilogram (kg), and pound (lb) weighing modes
*Application include: simple counting , hold, accumulation
*Low power indication and auto power off

Options:
RS-232 or Serial printer

| Load Cells	Minimum 350 ohm load cells Maximum 1000 ohm
	(Up to 4 load cells of 350 ohm)
Readability	Selectable, 0.0
Tare Function	Full
Units of measure	Kg , lb
Power supply	Rechargeable battery or AC adaptor DC 9V
Connector	4 pin d socket

4.2 Load Cell Connection

Pin1 connects with Exc+
Pin2 connects with Exc-
Pin3 connects with Sig+
Pin4 connects with Sig-
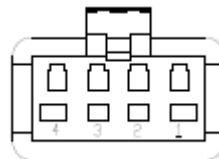
4.3 RS232 Connection

2- pin = Data output (TXD)
5- pin = Ground (GND)
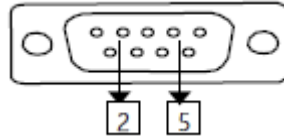
4.4 Printer Connection

Printer pin 1 connects with +5V
Printer pin 2 connects with GND
Printer pin 4 connects with TXD
Printer pin 5 connects with GND
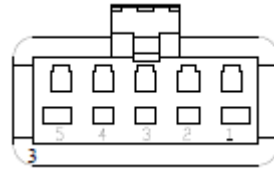
4.5 Display
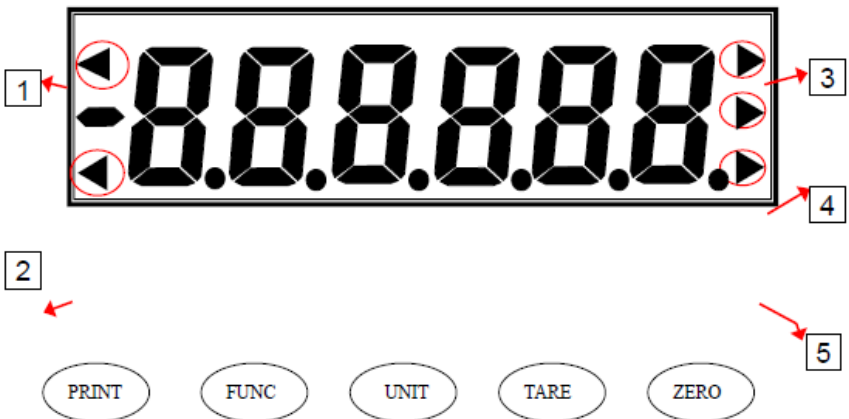
1. Zero status indication, Displayed when the scale is at the centre of its zero band.
2. Tare status indication, Displayed when the weight has been tare.
3. Simple counting indication, Displayed when the scale is in simple counting mode.
4. Unit indication, Displayed when the scale is in g or lb unit.
5. Kg indication, Displayed when the scale is in kg unit.

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4.6 Keypad

ZERO KEY：

This key is **ZERO** key; in the menu use as **"UP"** key
When the weigh pan is empty (free of load) and the display is not showing zero, press the **"ZERO"** key to zero the scale.(The weight can be zero at 2% of Max. capacity)

TARE KEY：

This key is **TARE** key; in the menu use as **"RIGHT"** key
The tare function will not operate during the following conditions:

1.When the scale powers on if the weight is negative and after a container is placed on the weigh pan if the weight is still below zero.
2. The tare value is over the full scale capacity.

UNIT KEY：

This key is **UNIT** key
Use this key to switch between kg and g or lb units

FUNCTION KEY：

This key is **FUNCTION** key
Use this key to choose the functions: Simple counting, Check weighing, Accumulation and Animal weighing.

PRINT KEY：

This key is **PRINT** key; in the menu use as **"CONFIRM"** key
Use this key to print data when the printer is connected

4.7 Operating the Scale

4.7.1 Simple Counting Mode

1. Press **FUNCTION** key once, LCD shows :

Press **ZERO** key to choose sample numbers from 10, 20, 50 to 100 pcs, then place the number of samples on the weighing pan. The number should match the options for parts counting. i.e., 10, 20, 50, 100, 200 pieces. Then press **PRINT** key to start the simple counting mode

2. Press **UNIT** key to check the unit weight and total weight, LCD will shows unit weight and shows total weight then back to simple counting mode

3. After LCD shows unit weight and total weight the scale back to simple counting mode, user can continuo use this mode or press **UNIT** key move back to weighing mode.

Press FUNCTION key to exit simple counting mode and move back to weighing mode.

4.7.2 Hold Weighing Mode

1. Press **FUNCTION k**ey three times, LCD shows

Press **PRINT** key to start the HOLD mode ,
When choose this mode, user needs to press **PRINT** key after the objects are put on pan and the scale is stable
2. Take off the object and press **ZERO** key the until back to zero .

Press FUNCTION key to exit HOLD mode and move back to weighing mode

4.7.3 Accumulation Mode

1. Press **FUNCTION k**ey four times, LCD shows:

Press **PRINT** key to confirm.

Manual Accumulation

1. When choose this mode, user needs to press **PRINT** key after the objects are put on pan and the scale is stable to accumulate the data; take off the object and wait until zero, then put other object to continue accumulate data

2. Press **UNIT** key to overview the total accumulated numbers and total accumulated weight; LCD will shows total accumulated numbers then shows the total accumulated weight

3.Scale will back to accumulation mode after shows the total accumulated numbers and weight

Press FUNCTION key to exit accumulation mode and move back to weighing mode.

5. **Power Supply**

POWER SELECTION
1. 6V4Ah rechargeable battery
2. 110V or 220V AC/DC adaptor

POWER CONSUMPTION
1. Approximately DC 17mA (Scale)
2. Approximately DC 37mA (Scale + Display backlight)

CHARGING THE BATTERY
When the low battery symbol is on, it means the power of scale is low needs to change the battery or plug-in the adaptor to recharge the battery.
To the right of the display is a LED to indicate the status of battery charging. When the scale is plugged into the mains power the internal battery will be charged. If the LED is green the battery is being charged. If it is red indicates the battery is increasing the charge level. Continue to charge overnight for a complete re-charge

6. Advance Functions

6.1 Checking Battery Voltage

When scale is on and at zero and stable, long press **ZERO** key around 3-5 seconds (beeper sounds) then release the key, LCD sill shows the battery voltage for 3 seconds ten back to weighing mode

6.2 Auto Back Light Setup

When scale is on and at zero and stable, long press **TARE** key enter the auto back light setup, use **ZERO** key to enable or disable, then press **PRINT** key to

confirm and back to weighing mode.

6.3 Auto Off Setup

When scale is on and at zero and stable, long press **UNIT** key enter the auto off setup, use **ZERO** key to enable or disable, then press **PRINT** key to confirm and back to weighing mode. **on** enable (scale will turn off after 10 mins haven't been use; to be able to use the scale, needs to turn on the on/ff switch)

off disable

6.4 Division Setup

When scale is on and at zero and stable, long press **FUNCTION** key enter the division setup, use **ZERO** key to select the divisions, then press **PRINT** key to confirm and back to weighing mode

7.   Calibration

A. Setting up division, decimal point, max. capacity and calibration

Press and hold "**PRINT**" key, then turn on the scale, to enter division setting:

1. Division Setting：

LCD shows [d x] then press "**ZERO**" key to select 1、2、5、10、20、50，and then press "**PRINT**" key to confirm，and enter the decimal point setting.
Ex. When display shows [d 5]，Press "**PRINT**" key，the division set as 5，then enter the decimal point setting.

2. Decimal point setting：
LCD shows [p x] then press "**ZERO**" key to select 0、0.0、0.00、0.000、0.0000，P.00000，and then press "**PRINT**" key to confirm, and enter the maximum capacity setting.

Ex. When display shows [p 0.000]，Press "**PRINT**" key，the division set as 0.000，then enter the maximum capacity setting.

3. Maximum capacity setting：

LCD shows [FULL] around 2-3 seconds then LCD shows [000.000] the decimal point was set as 3 decimal points, then press "**TARE**" key to move the flashing digits to the right in circle to select the digits that will increase the number, then press "**ZERO**" key to increase the number until the number appears, then repeat the above moves until LCD shows the maximum capacity then press "**PRINT**" key to enter calibration setting

Ex. LCD shows [50.000] then press "**PRINT**" key to enter calibration setting

4. Zero point calibration：

LCD shows [CaL 0] Do not put any objects on the pan when display shows this, then scale will move to next calibration setting

5. Second point calibration：**(unit is in kg)**

LCD shows [00.000] the decimal point was set as 3 digits. (this depends on what user sets in the last moves). Put on the weights on the pan which will be calibrate as second point then use "**TARE**" key to move the flashing digits to the right in circle to select the digits that will increase the number, then press "**ZERO**" key to increase the number until the number appears, then repeat the above moves until LCD shows the numbers which is equal to the weights put on the pan, then wait until the scale is stable then press "**PRINT**" key , scale will move into the weighing mode then press "calibration" key to confirm calibration finish

B. Fast calibration mode:

Press and hold "**PRINT**" key，then turn on the scale，then press "**FUNCTION**" key to enter calibration mode: (the division, decimal point and max. point will remain the same)

1. Zero point calibration：

LCD shows [CaL 0] Do not put any objects on the pan when display shows this, then scale will move to next calibration setting

2. Second point calibration：**(unit is in kg)**

LCD shows [00.000] the decimal point was set as 3 digits. (this depends on what user sets in the last moves). Put on the weights on the pan which will be calibrate as second point then use "**TARE**" key to move the flashing digits to the right in circle to select the digits that will increase the number, then press "**ZERO**" key to increase the number until the number appears, then repeat the above moves until LCD shows the numbers which is equal to the weights put on the pan, then wait until the scale is stable then press "**PRINT**" key, , scale will move into the weighing mode then press "calibration" key to confirm calibration finish

8. Appendix : LCD Word Table

0	1	2	3	4
5	**6**	**7**	**8**	**9**
A	**B**	**C**	**D**	**E**
F	**G**	**H**	**I**	**J**
K	**L**	**M**	**N**	**O**
P	**Q**	**R**	**S**	**T**
U	**V**	**W**	**X**	**Y**
Z	**?/Others**	**-**		