ANYLOAD®

NPS Series

Pallet Jack Scale

T15E v2 series indicator

Operator's Guide (V1909)

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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's body. The indicator is featured with auto calibration, auto-off / auto-idle, 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 period 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 / auto idle

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 measurement	Kg , lb
Power supply	7.4V/2500mAh Lithium Rechargeable battery or AC adaptor 10VDC, 1000mA
Connector	4 pin d socket

4.2 Load Cell Connection

Load cell bus	Connector
Red	**J1 (A)**
Yellow	**J2 (B)**
Blue	**J3 (C)**
Black	**J4 (D)**

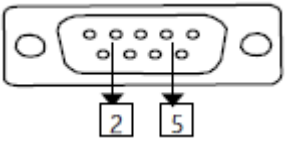
Load cell wire	Wire socket
Red	**E+**
Black	**E-**
Green	**S+**
White	**S-**

4.3 RS232 Connection

RS232 connection with printer or computer applies only to T15E-R, T15C-R, T15E-A, T15C-A indicator models:

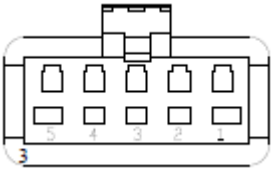
1. Serial communication interface use RS232 plug with 9 cores.
2. All data are in ASCII codes. Every set is composed of 10 bits: the 1st is the starting bit, the 10th is the stop bit.
3. Baud rates: 2400/4800/9600/19200
4. Communication Type: Command Mode

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. Will light on when the scale is at the centre of its zero band.
2. Indication when battery charge is low
3. Tare status indication. Will light on when the weight has been tared.
4. Will light on when the scale is in Counting Mode
5. Will light on when the scale is set to lb unit of measurement
6. Will light on when the scale is set to kg unit of measurement

4.6 Keypad

POWER KEY / ZERO KEY：

This key is the **POWER** key. It is also the **ZERO** key. Pressing and holding this key will turn on or off the device. During weighing mode and when the weigh pan is empty (free of load) and the display is not showing zero, pressing this **"ZERO"** key will return the scale to zero. (The weight shall be zero at 2% of Max. capacity)

TARE KEY / "RIGHT" KEY：

This key is the **TARE** key. It is also use as **"RIGHT"** arrow key during the function and calibration mode. The tare function will not operate during the following conditions:

1. At weighing mode, if the display is showing negative after removing the container from the weigh pan; or if the weight reading is still lesser than zero.
2. The tare weight value is more than the full scale's capacity.

UNIT KEY / LOAD KEY：

This key is the **UNIT** key. Use this key to switch between kg and lb units of measurement. This is also the **LOAD** key when the scale is in function or calibration mode.

FUNCTION KEY：

This key is the **FUNCTION** key. Use this key to switch the scale to the following functions: Simple counting, Check weighing, Accumulation and Animal weighing/Hold.

PRINT KEY / CONFIRM KEY：

This key is the **PRINT** key. Use this key to print data when the printer is connected. This is also the **"CONFIRM"** key when the scale is in function or calibration mode.

4.7 Operating the Scale

	OPERATION	DISPLAY	DETAILS
Battery Charging	Plug in the specified external power supply to a 100-240VAC source	[CHArGE] [- - - - -] [Pbt XX] [-End-]	- charging - charging on progress - displays charge capacity - charging ended
Turn On/Off	Hold and press 	[-t15E-] [Ver2.04] [19-06-10] [09.38] [Pbt 85] [8. 8. 8] [0.0]	-Indicator model -Software version -Current date set (yy-mm-dd) -Current time set (HH.MM) -Battery remaining charge (85%) -Self test -Weighing state
Zero Setting	Press 	[xx.x] [0.0]	-Weight shall be within 10% of FS and must be at stable state -The Zero indicator will light on
Tare Setting	Press 	[shows positive value] [0.0]	-The weight should be more than 0 and not more than the scale's capacity, and at stable state -The Tare indicator will light on, showing the net weight value
Removing Tare Weight	Press 	[shows negative value]	-When tare weight is stored, pressing the Tare key will remove the stored tare. The Tare indicator will light off.
Unit Setting	Press  Press 	[xx.x] [yy.y]	-The lb unit indicator will light on if it is selected -The kg unit indicator will light on if it is selected
Print Setting	Press 	[xx.x]	-Weight should be greater than the minimum weighing value and is at stable
Counting Mode	Press  Press  Press 	[PCS 10]	-Counting mode. -Press the Tare key to browse the number of samples: 10, 20, 50, 100 -Place the samples, wait to stabilize then press the Print key to

			confirm. The PCS indicator will light on.
	Press U		-Checking unit weight
	Press F 3 times		-Returning to weighing mode. “PCS” indicator light will turn off.
Weight Hold Mode	Press F 2 times	[Hold]	-Hold mode
	Press P		-With the load on the scale, press the Print key to activate the Hold function
	Press ⏻	[0.0]	-Release the held weights, return to hold mode
	Press F 2 times		-Exit the hold mode and will return to weighing mode
Accumulation Mode	Press F 3 times	[ACC 12]	-Accumulation function
	Press →	[ACC 12]	-Press Tare key to select either 1 or 2: 1. Manual accumulation; 2.auto accumulation
	Press P		-Press the Print key to confirm entering the accumulation mode
	Press U		-Press the Unit key to display the cumulative number of times, display the cumulative weights after 2 secs., and return to accumulation mode
	Press P		- In 1 mode, the cumulative value is printed after the weight is stable. In 2 mode, printing is automatic once the weight is stabled. When the indicator is shut off, the stored cumulative value is cleared out and will return to weighing mode.
If the indicator is equipped with a clock chip:			
Time Setting	Press U	[09.15.46]	-Time setting (9:15:46)
	Press U or →		-Enter new value
	Press P	[19.06.10]	-Date setting (June 10, 2019)
	Press U or →		-Enter new value
	Press P		-Return to the weighing mode

5. Calibration

Turn off the indicator. Turn on the indicator by pressing and holding the power key. When the unit starts to initialize and shows the software version, press the (Print key) to enter the calibration mode.

STEPS	OPERATION	DISPLAY	DETAILS
1	Press and hold Press P Press P	[-t15E-] [V2.04] [524563]	-Indicator starts to initialize -When the software version shows up, release the Power key then press the Print key to enter calibration -When A/D value is displaying it indicates the scale is in calibration mode -Press the Print key start the calibration process
2	Press P	[CAL 00]	-Will start the zero calibration and zero correction. Make sure there is no load on the scale and is at stable state then press the Print key to start.
3	 Press Unit or Tare	[-------] [2000] [-LoAd-]	-Indicating the zero calibration is in progress. -After a few seconds, it will show the capacity of the scale and will display LOAD. -When “LOAD” is displaying, press either Unit key or Tare key to enter the value of weights to be used for calibration. It is recommended to use at least 80% of max capacity of scale to have a better calibration result.
4	Press Unit or Tare Press P	[2000.0]	-If using a 2000.0kg as calibration weight. Press Unit key and Tare key to change the weight value. -Load the 2000kg weight to the scale then press Print key to start span calibration
5		[-------] [2000.0]	-Indicating the span calibration is in progress -Displaying the weight value of the load. This also indicates that the calibration is successfully done.

Note:

1. If the zero position is constant and not needed to be calibrated, press the to skip the zero correction when [CAL 00] is displaying on the screen. When “LOAD” is displaying, press Unit or Tare key to enter the value of the calibration weight, then proceed on the span calibration.

2. If zero correction or zero calibration is needed, enter [0000.0] as the calibration weight then proceed the calibration. It will return to weighing mode.

6. Parameter Settings

Parameters	Instructions
Changing Scale Division / Capacity	-Turn off the indicator. Turn on the indicator by pressing and holding the power key. When the software version shows up, release the Power key then press the Function key -It will display the current scale division. Press the Tare key then press Unit key to change the value (Options are from 0.001 to 50 division). Press the Print key to save the value. -It will ask the maximum capacity of the scale. The value in here should not exceed the capacity of your load cells to prevent damaging the load cells. For example if the scale is designed for 2000kg capacity, enter a value of “02000.0” or “002000 ”. Press Print key to save the settings.
Enable/Disable Auto Off	-Turn off the indicator. Turn on the indicator by pressing and holding the power key. When the software version shows up, release the Power key then press the Unit key -Press Unit key to change the parameter value. 1 is for Enable Auto Off and 0 is for Disable Auto Off. When Auto Off is enabled, the scale will turn off automatically after 20 minutes when no activity on it.

7. Power Supply

POWER SELECTION

1. 7.4V/2500mAh Lithium Rechargeable battery
2. 110 - 220V AC/DC adaptor 10VDC, 1000mA

Instructions for using the battery:

1. Fully charged the battery during its first time use
   Use the specified charger/ power adaptor and plug it to a source ranging 100-240VAC, 50/60hz. The battery is being charged when the display is showing “ CHArGE” “ -------“ and “ Pbtxx”
2. When the low battery symbol is on, it means the power of scale is low and needs to change the battery or to recharge using the specified adaptor.

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	-		
				

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