

# KILOTECH



## **Cyclone Series Platform Scale Owner's Manual**

Contents subject to change without notice

Version 01.02

09/2015

Ce manuel est disponible en français à [www.kilotech.com](http://www.kilotech.com)

# TABLE OF CONTENTS

<b>TABLE OF CONTENTS</b> .....	<b>2</b>
<b>Introduction</b> .....	<b>3</b>
<b>General Precautions</b> .....	<b>4</b>
<b>Specifications</b> .....	<b>5</b>
<b>Unpacking and setup</b> .....	<b>6</b>
<b>Contents</b> .....	<b>6</b>
<b>Display and keypad</b> .....	<b>7</b>
Display.....	7
Symbols on Display .....	7
Keypad .....	7
<b>Operations</b> .....	<b>8</b>
Turn on/off .....	8
BATTERY OPERATION .....	8
<b>COUNTING FUNCTION</b> .....	<b>9</b>
Enter and exit counting mode .....	9
Sampling setting.....	9
Counting objects .....	9
<b>Accumulation function</b> .....	<b>9</b>
<b>Check weighing function</b> .....	<b>10</b>
Activate the Check Weighing Mode.....	10
<b>GENERAL SETTINGS</b> .....	<b>10</b>
AUTOMATIC POWER OFF .....	10
BUZZER ON/OFF.....	10
SETTING OF BACKLIGHT FUNCTION .....	11
LOW BATTERY AUTO SHUTDOWN .....	11
<b>ERROR MESSAGES</b> .....	<b>11</b>

# Introduction

Thank you for choosing a Kilotech Scale. We appreciate your business and hope that you will enjoy using your scale. Should you require support, please contact your local dealer from whom you have purchased.  
Happy Weighing!

# General Precautions

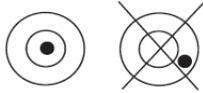
<b>Avoid lengthy exposure to heat or cold.</b>	<b>Allow the scale to acclimate to normal room temperature before use.</b>
<b>Allow sufficient warm up time.</b>	Turn the scale on and wait for a few minutes to allow the internal components a chance to stabilize before weighing.
<b>Do not leave a load or weight on a scale for a prolonged period of time.</b>	
<b>Do not tamper with the scale yourself.</b>	This will void the warranty. Contact your local distributor to properly repair your scale.
<b>Do not disassemble the scale yourself.</b>	This will void the warranty. Contact your local distributor to properly repair your scale.
<b>Do not load beyond max cap the maximum weight limit.</b>	
<b>Do not pull the plug by its cord when unplugging.</b>	
<b>Do not use the scale near fire or corrosive gas.</b>	
<b>Do not spill water or immerse in water.</b>	
<b>Avoid placing the scale near a heater.</b>	It could cause a fluctuation to the indicator reading.
<b>Always make sure to use a Kilotech approved adapter.</b>	
<b>Do not drop the scale or apply a sudden shock.</b>	
<b>Do not drag the scale.</b>	
<b>Avoid exposing to other electromagnetic devices.</b>	These devices emit RF and can cause unstable readings. If your scale should perform poorly, try moving the scale to a different room or location.
<b>Level the scale or make sure it is on an even surface.</b>	A scale used on an uneven surface may provide an unstable reading.
<b>Scale should be used within stated temperature &amp; humidity limits.</b>	
<b>The scale should always be used in an environment which is free from excessive air currents, corrosives, vibration and temperature or humidity extremes.</b>	

# Specifications

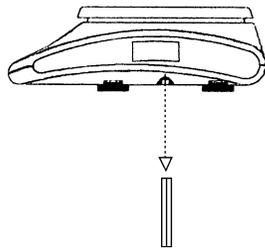
Model	CYCLONE 150	CYCLONE 300
Capacity	0-60kg x 20g / 60-150kg x 50g 0-150lb x 0.05lb / 150-300lb x 0.1lb	0-150kg x 50g / 150-300kg x 100g 0-300lb x 0.1lb / 300-600lb x 0.2lb
Units of Measure	kg, lb, pcs	
Keyboard	6 Keys	
Audio alarm	Tone for key entry confirmation, low battery and High/Low alarm	
Working temperature	0° C ~40° C 32° F ~104° F	
Over capacity	Display "OL" when exceeds the full scale capacity	
Tare	Full capacity, push button tare	
Auto Zero tracking	Yes	
Display	High contrast LCD with auto backlight	
Remote display	No	
Current consumption	0.6vA	
Digit/height	6 digits/ 26 mm	
Check weighing function	HI/LO/OK annunciate & alert buzz	
Set points	Selectable up to 2 set points for low and high limit settings	
Counting function	Yes	
Accumulate Weighing	Yes	
RS232	No	
Dimension (W x H x D)	400 x 500 x 800 mm	450 x 600 x 960
Weight	13 kg	20kg
Box size	840 x 600 x 24 mm	940 x 640 x 24mm
Box weight	15 kg	23kg
Power Supply	AC/DC adapter & rechargeable battery	

# Unpacking and setup

- Remove the scale from the box and place it on a firm, level surface.
- Avoid locations with rapid temperature changes, excessive dust, moisture, air currents, vibrations, electromagnetic fields, heat or direct sunlight.
- Adjust the leveling feet until the bubble is centered in the circle of the level indicator (located on the front panel).



- NOTE: Ensure that the scale is level each time its location is changed.
- Before using the scale for the first time, the internal rechargeable battery should be charged for at least 12 hours.
- Connect the supplied AC adapter to the power input receptacle underneath the scale. Plug the AC adapter into a power outlet and the battery will begin charging.
- This product comes equipped with a protection screw to protect the scale during transportation. Prior to first use, remove the protection screw.



- If the scale will be stored or transported in the future, save the packaging material and re-install the protection screw to ensure the best possible protection for the scale.

## Contents

- Scale
- 6Vdc4AH lead-acid battery (installed in scale housing)
- 12Vdc/800mA UL adapter with positive center
- Manual

# Display and keypad

## Display



## Symbols on Display

	Stable annunciator		Low battery annunciator
	Gross Weight annunciator		Net weight annunciator
	Tare mode		Zero annunciator
	Check weighing annunciator	<b>kg</b> <b>PCS</b> <b>lb</b>	Available weighting units

## Keypad



Turn on / off.



Used to tare weight on the platter



Used to set the scale to zero



Used to switch between units



Used to recall the accumulative weight.



Used to add current weight to accumulative weight

# Operations

## Turn on/off

Make sure the scale platter is empty. The switch is located on the right side of the scale. I = on O = off.

The scale will start to count down from nine to zero and will display the max capacity of the scale in the WEIGHT display. Once the scale shows all zero's it is ready for use.

**Note:**

Please allow for a warm-up for 15~30 minutes to get optimal performance.

## BATTERY OPERATION

The battery life is approximately 40 hours. When the battery needs charging, the low battery annunciator will show.

The battery must be charged when the symbol appears. To charge the battery, simply attach the power supply to the scale and plug it in. The scale does not need to be turned on.

There is an LED to indicate the status of battery charging on the right of display. If the LED is Green the battery has

- Green is full
- Yellow is charging
- Red is empty

When the battery fails to hold a full charge, contact your distributor for a replacement.

**Note:** When the scale is stored for prolonged period, the battery should be recharged every 3 months.

# COUNTING FUNCTION

This mode is used to indicate the number of pieces of an item placed on the pan. To ensure accuracy, the items that are counted must be consistent in weight.

The scale uses the sampling method to determine the number of parts in a large sample of identical pieces. For example, 30kg scale, sample weight is 200g, it is 100pcs sample units.

## Enter and exit counting mode

Hold the  key for 3 seconds to enter and exit counting mode. When entering the count mode, display shows "PCS" for 3 seconds then "PCS" indication lights up and starts counting.

## Sampling setting

1. In the counting mode, press and simultaneously hold  and  keys for 3 seconds. The scale will enter the sampling setup mode, and "Count" will be displayed. Then it returns to zero. If it does not display "0", press  key to clear.
2. Place known number of sample objects on the platter. Press  key to confirm and enter the quantity setup mode.
3. One digit will flash "0". Press  key to increase the flashing digit by 1; and press  key to move the digit to the left. Do this until it reaches the needed value.
4. Press  key to confirm and start counting.

**Note:** Press  key to exit the setup midway.

## Counting objects

Place objects to be counted onto the plate. The number of pieces on the platter will be displayed.

# Accumulation function

1. Place an item on the platter. When the scale shows the stable signal, press  key. Scale shows ACCX (X is number of accumulations) for 3 seconds and then returns to regular weight screen (current weight)
2. Remove weight (Scale must return to zero and be stable before you are able to continue accumulate operation). Repeat the same operation until all items have been accumulated.
3. Press  key to toggle between the Total weight and regular weight display.
4. While in total weight mode, press  key to clear the total weight and return to normal weighting mode.

**Note:** During accumulation, you are not allowed to change units. Tare and zero are only allowed before the start of the accumulation process.

# Check weighing function

## Activate the Check Weighing Mode

1. Activate the Check Weighing Mode by pressing the  and  keys simultaneously for 3 seconds. The scale shows the HI / OK / LO arrow and current weighing unit.

### Set low limit

1. Press the  &  keys simultaneously, the display will show SEt L0 for 3 seconds and then the first digit will flash "0". Press  key to increase the flashing digit by 1. Press  key to move the digit to the left. Do this until it reaches the needed value.

### Set high limit

- Press the  key and the display will show SEt HI for 3 seconds and then the first digit will flash "0".
- Press  key to increase the flashing digit by 1. Press  key to move the digit to the left. Do this until it reaches the needed value.
2. Press  key to confirm. The display will show En SEt To confirm and return to zero.

### Start to weigh

Place an item on the platter.

When the weight is below minimum weight setting: The indicator will issue a continuous audible alarm and the LO arrow on display is lit up.

When weight on the platter is within range, the OK arrow is lit up and no sound is emitted.

When the weight is above the maximum weight settings: The indicator will issue an intermittent audible beep and HI arrow on display is lit up

**Note:** If buzzer is disabled in setup then no sound will be emitted.

## GENERAL SETTINGS

### AUTOMATIC POWER OFF

Press and hold the  key for 2 seconds, the screen will display OFF HH, "XX" refers to pre-set shut down time. There are 7 options for pre-set shut down time: 10, 20, 30, 50, 60 and 0. 10~60minutes denotes respectively that indicator will power off automatically if there is no changes on weighing value and no operation on keyboard. Choice 0 means that automatic power off function is disabled.

Press  key to select then press  to confirm the selected pre-set time and go to next step.

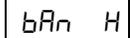
### BUZZER ON/OFF

The indicator will now display bP On or bP OFF.

Press  to select “On” or “OFF” to activate the audible alarm.

Press  to confirm and to go to next step.

## SETTING OF BACKLIGHT FUNCTION

The indicator will now display .

X refers to the backlight mode selection.

X=0; backlight is disabled.

X=1, means manual mode. Long press  to turn on/off.

X=2, means automatic backlight function mode 1. Backlight is active during operation.

X=3, means automatic backlight function mode 2. Backlight is active during operation but turns off after 10 seconds.

Press  to select then press  to confirm.

## LOW BATTERY AUTO SHUTDOWN

The indicator will now display .

“XX” represents minimum battery capacity percentage. When the capacity of battery is lower than the setting value, the indicator will shut down and need to be charged. Default setting is “10%”.

Press  to select then press  to confirm and exit.

## ERROR MESSAGES

<b>ERROR 1</b>	<b>Zero range is over 4% of capacity</b>
<b>ERROR 2</b>	Unable to re-zero, check the load cell if it is damaged
<b>ERROR 3</b>	Not allow switching units. TARE mode is active
<b>OVER</b>	Overload. Loaded weight exceeds max capacity