

# EDTW

## Electronic *Dial Wrench* *Operating Instructions*



Mountz, Inc  
ISO 9001 (2000) company

## Install Batteries

1. Install high quality 9 volt battery in handle of wrenches 50 ft.lb. and below.  
Install in case on 100 ft.lb. and above. Remove screw(s) to expose battery.  
Do not overtighten screws

**Notes:** When batteries are low a “BATT” icon will light. When batteries are critically low the wrench will not turn on.

Battery life depends on battery quality and the amount the lights and buzzer are used (target torque). Use a high quality lithium battery for longest life. It is OK to use externally rechargeable batteries.

Keep the end cap threads clean and dry for a good contact.



## Power On

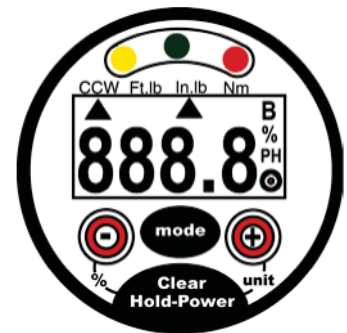
1. Press and hold the “Power” button to turn the wrench on.

**Notes:** If you do not use the wrench for 3 minutes the wrench will automatically shut off.

Do not apply torque to the drive when you power up.

If the wrench comes on and then shuts off immediately the batteries are probably low.

All previously stored settings (units, target value, target %) are stored even when the power is off and the batteries are out of the wrench.

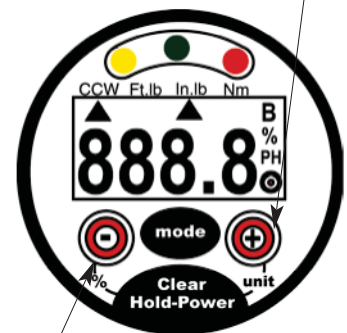


Press and hold the “Power” button to turn the wrench on.

## View/Change the Pre-set Torque Value:

1. Press either Target - or + key once to see the current target value without making any changes. The target will show for 3 seconds.
2. Press and hold the Target - button to lower the current target value. Press and hold the Target + button to increase the current target value. The longer you press and hold the target key the faster the display will change.

Press & hold Target + to increase pre-set torque.



Press & hold Target - to decrease pre-set torque.

## When you apply torque with a target set:

As you get close to the target torque value you will see a yellow light warning you that you are approaching the target value.

When you are within 2% of the target value you will see a green light and hear a buzzer. Stop pulling!

When you go over 2% of the target value you will see a red light and hear an intermittent buzzer. Too much torque!

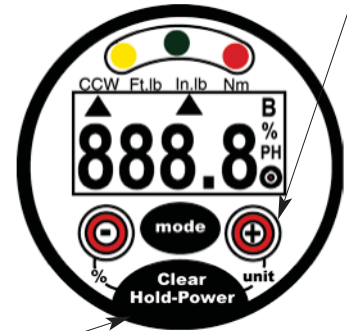
## Changing Units:

1. For security it takes two key presses to change the units:
2. Press and hold the power/clear button (when wrench is on).
3. Then press the Target + key to change units. ft.lb...In.lb...Nm

**Notes:** When you change units the target setting will also be changed to the new units value (makes a great torque conversion calculator).

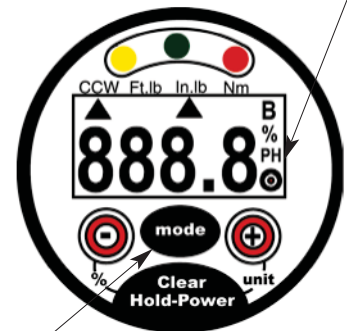
The units selected will become the default units when the wrench is turned off and on again.

Then press the Target + key to change units



First press and hold the power/clear button

PH is shown when in peak mode



Press the Mode button from peak to track.

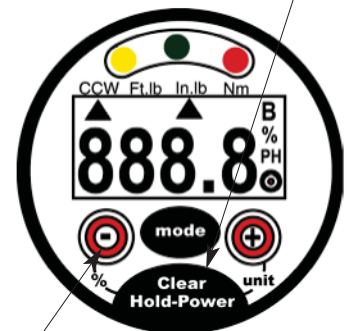
## Changing from Peak to Track mode:

1. Press the Mode button from peak to track.

## Changing Tolerance Settings:

1. The default setting is +/- 2% of pre-set torque. The operator can adjust the the setting from 1 - 10% or turn it off.
2. With the wrench ON, hold the power button and press the Target - key. Keep pressing the Target - key until you show the desired value.
3. The tolerance setting provides a visual and sound signal if the torque Passed or Failed.
  - If the torque is under the pre-set torque & tolerance setting - Yellow light
  - If the torque is within the pre-set torque & tolerance setting - Green light
  - If the torque is over the pre-set torque & tolerance setting - Red light

Press & hold to Power button with the wrench on



Press the - button to change tolerance setting

## Applying Torque:

1. Tighten nut or bolt by applying a steady even pull using built in ratchet as necessary. Wrench should be kept at 90 degrees to axis of bolt during tightening.
2. When pre-set torque is reached, there are 3 ways to determine what torque is being applied:
  - Look directly at the LCD.
  - Pre-set torque and look for the lights.
  - Pre-set torque and listen for the buzzer.
3. Once pre-set torque is achieved, do not apply any more torque or you will over tighten it.
4. Rotate the display for easy viewing.



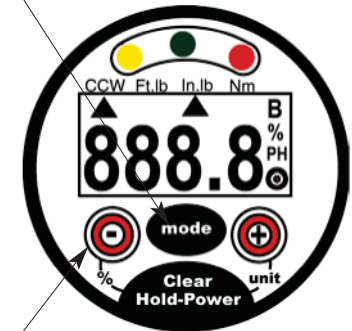
Display rotates both ways  
(up to 359 degrees)

## LCD Contrast:

1. The operator can change the LCD contrast (viewing angle) by first pressing and holding the Mode button and then press the Target - button. This is useful when the temperature is very cold or very hot.

**Notes:** The contrast changes very slowly, so be patient.

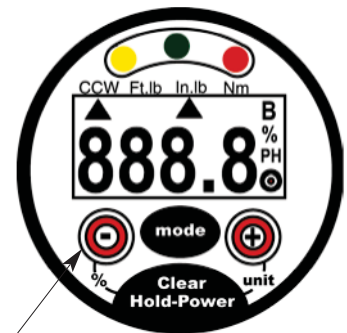
Press and hold the Mode button



Then press and hold the target - button (wait for the contrast to change)

## Manual Off:

1. To manually turn off the wrench, hold the Power button for 3 seconds.



Press the power button for 3 seconds



Accuracy +/- 1% of reading, +/- 1 digit.

Designed for R&D, QC, a lab or production environment.

Program pre-set torque.

Display rotates - LCD can be read from any side.

Three units of torque measurement available: N.m, lbf.ft, lbf.in

Selection of two operating modes: Track and Peak.

Non-length dependent.

Go/No Go LED's and a buzzer can be set for a high or low torque limits.

Four-digit display.

Battery operation.

### Testing & Servicing

For testing the torque wrench either use a torque analyzer or torque transducer within the range of the torque wrench. Make sure you apply the torque slowly and smoothly.

In order to maintain accuracy, it is crucial that torque control measuring equipment be calibrated regularly.

We recommend a general once a year calibration interval. However, it is the user's organization that must determine suitable intervals based upon equipment performance, application, degree of usage and management objectives.

For calibration, re-adjustment or repairs, please send the tool to one of our 3 service locations.

### Mountz Service Locations

#### **Eastern Service Center**

19051 Underwood Rd.  
Foley, AL 36535  
Phone: (251) 943-4125  
Fax: (251) 943-4979

#### **Western Service Center**

1080 N.11th Street  
San Jose, CA 95112  
Phone: (408) 292-2214  
Fax: (408) 292-2733

#### **Mexico Service Center**

Mountz Mexico SA de CV Chihuahua  
Av. Cristobal Colon #15343  
Col. Paseos de Chihuahua  
Chihuahua, Chih. Mexico CP 31125  
Phone: (614) 481-0023  
Fax: (614) 481-0053

[www.ETorque.com](http://www.ETorque.com)

Download a "Service Form" and include a copy when you send the tools in to be serviced.