



# SEALEY STW310 Digital Torque Wrench with Angle Function Instruction Manual

[Home](#) » [SEALEY](#) » SEALEY STW310 Digital Torque Wrench with Angle Function Instruction Manual 

## SEALEY STW310 Digital Torque Wrench with Angle Function Instruction Manual



**Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.**

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual

### Contents

- [1 SAFETY'](#)
- [2 INTRODUCTION](#)
- [3 SPECIFICATION](#)
- [4 CALIBRATION](#)
- [5 OPERATION](#)
- [6 ENVIRONMENT PROTECTION](#)
- [7 BATTERY REMOVAL](#)
- [8 Documents / Resources](#)
  - [8.1 References](#)
- [9 Related Posts](#)

## SAFETY'

% **WARNING! DO NOT** use the torque wrench if damaged or thought to be faulty.

- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using the torque wrench.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ 9 Keep children and unauthorised persons away from the working area.
- ✓ Avoid over-torquing the wrench (110% of maximum torque range) as this will cause loss of accuracy.
- ✓ Keep the wrench away from magnets.
- ✓ In operation when you hear the continuous tone, stop pulling immediately especially in case the target torque/angle is low.
- ✓ Ensure all sockets, extensions and drivers are rated correctly and are of flawless construction. Avoid using adaptors and extensions for best accuracy.
- ✗ DO NOT use the torque wrench if the batteries are low, torque accuracy will be affected.
- ✗ DO NOT use the wrench as a hammer or similar.
- ✗ DO NOT use on live electrical circuits the plastic handle is not insulated.
- ✗ DO NOT subject the wrench to excessive force or shocks.
- ✗ DO NOT drop, throw, or violently shake the wrench.
- ✗ DO NOT operate the wrench in damp conditions.
- ✗ DO NOT operate the wrench in dusty conditions.
- ✗ DO NOT push on the LCD panel.
- ✗ DO NOT use wrench until first instructed in its use by a qualified person.
- ✗ DO NOT leave the wrench in a place exposed to excessive heat, humidity or direct sunlight.
- ✗ DO NOT use organic solvents such as alcohol or thinners to clean the wrench.
- ✗ After use, turn the wrench off, clean with a soft dry cloth, place torque wrench in its storage case, and store in a safe, dry, childproof location.
- ✓ Remove the batteries if the torque wrench is not to be used for a long time, to prevent damage from leaking.

## INTRODUCTION

Rugged and resilient digital torque wrench suitable for workshop and factory use. LCD read-out with LED, vibration and audible alarms to indicate achieved and target torque levels. Features angle mode, eliminating the need for angle gauges and protractors providing an accurate and fast way to measure torque plus angle tightening sequences. Will also accumulate angle measurement when multiple turns are required, ideal for use where access is limited. Selectable track or peak modes and up to five user preset memories available. Read-outs in Nm, lb.in, lb.ft, kgf.m or degrees. Reversible Chrome Vanadium 72-tooth ratchet allows torque reading in either direction. Accurate to  $\pm 2\%$  of wrench's stated capacity. Supplied with test certificate and storage case.

## SPECIFICATION

**Model No:** STW310

**Angle Range:** 5-360°

**Battery:** 4 x AAA (supplied)

**Drive:** 1/2" Sq

**Length:** 675mm

**Range:** 30-340Nm (22-250 lb.ft)

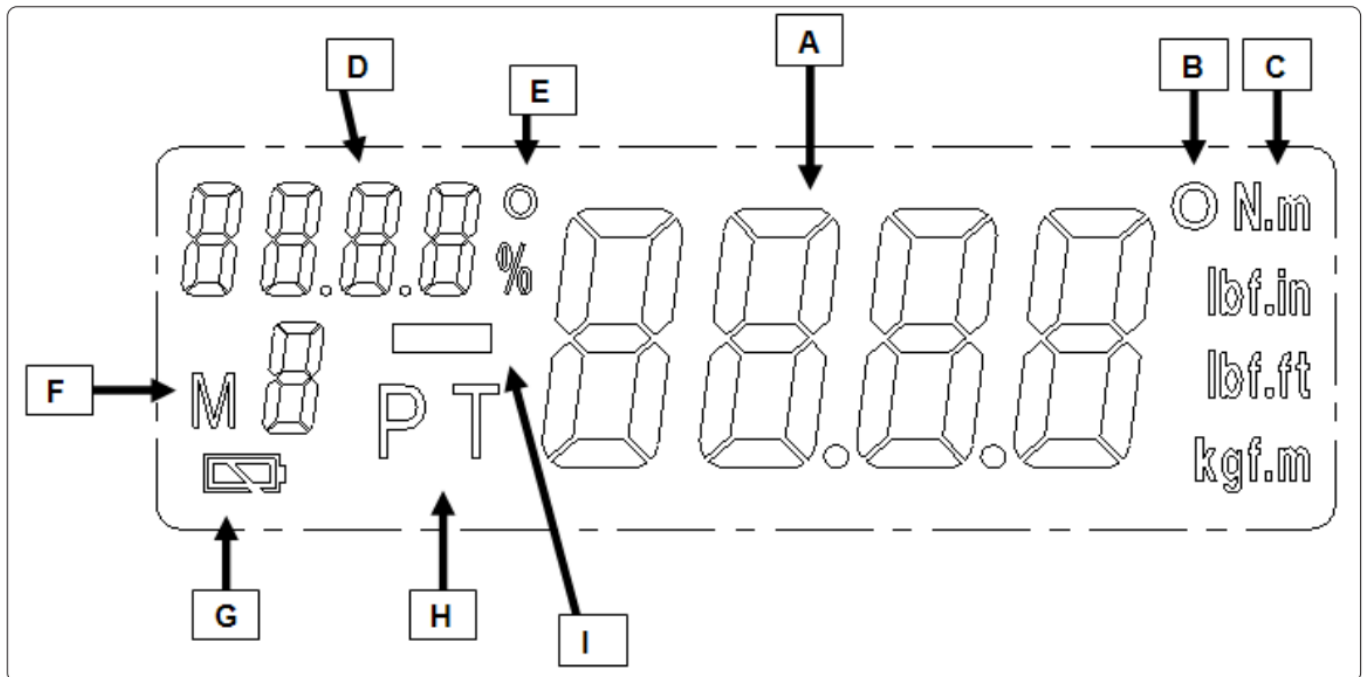
## CALIBRATION

We recommend to ensure continued accuracy the calibration of the wrench should be checked annually, beginning one year after the first time of use. Calibration should also be checked after any impact, over-torquing or other misuse. Contact your Sealy Stuckist to arrange recalibration.

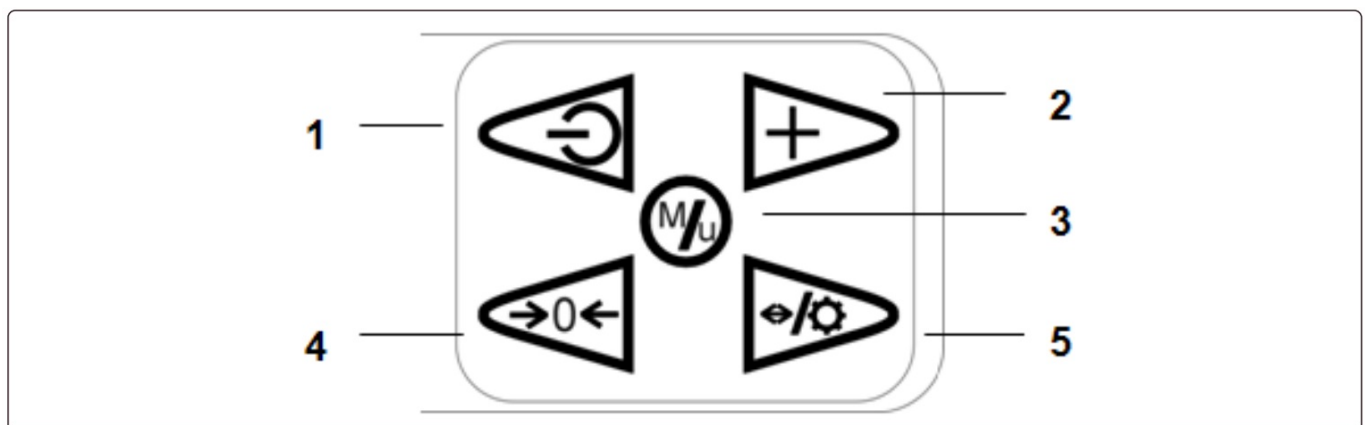
## OPERATION

### DISPLAY

- A:** Real-time torque value
- B:** The unit of Angle
- C:** Torque units
- D:** Target Torque indicator
- E:** Target Angle indicator
- F:** Memory storage numbers
- G:** Battery indicator
- H:** Peak / Track mode
- I:** MINUS symbol for anti-clockwise rotation.



### CONTROL PANEL



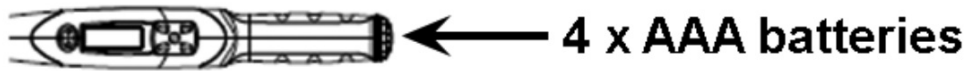
1. Power ON / OFF button
2. Memory storage numbers selection / setting button
3. Setting button / Memorize the torque or angle setting value / Change the rotation of Angle in a CW or CCW direction.
4. Button to zero out the torque and angle values
5. Button for display illumination (hold down for 3 seconds) / for selecting the next digit / Enter angle measurement mode.

## PREPARATION FOR USE


Open the cover of the battery compartment by turning it counter-clockwise.


Insert four AAA batteries positive end first, push the battery cap on against the spring and screw clockwise to lock.

**✗ DO NOT:** mix the type of battery or use new/used ones together. Keep the battery terminals clean. If the battery voltage is low, the battery symbol will be displayed on the screen and soon afterwards the wrench will turn off. Replace batteries.




## TURNING THE TOOL ON / OFF

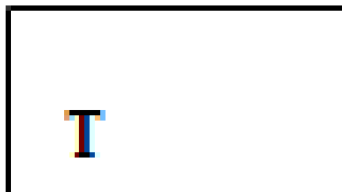
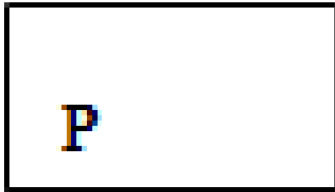
Press  button to turn on. The buzzer sounds and on the display all readouts will be displayed at the same time for a moment

Press  button again to turn off the electronic system.

## Peak and Track Mode Setting

Press  to turn the wrench on. After turning on the display, the default is in “Track “ mode, i.e. the real-time torque reached during operation will be displayed.

Press  button to select: **(Peak)** mode or back to **(Track)** mode.

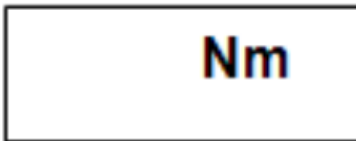


During the “Peak” mode, the maximum value reached will be saved additionally and the value is shown on the display for approx. 2 seconds. After that, this value is flashing then you keep going for the next application or

press  button to zero then keep going for the next application.


## UNIT SELECTION

Enter the selecting mode by pressing and holding the button for 5 seconds.



is shown on the screen, select the units between N.m/ lbf.ft/ lbf.in/ kgf.m by pressing


 button.

Press  button to confirm the unit selection. The wrench will switch to the setting of **Auto Power Off**


% **WARNING!** If no button is touched within 3 seconds, the wrench will remain at the last selection of unit, and return to measuring mode.

## AUTO POWER OFF SETTING

The torque wrench will be turned off automatically without any buttons being touched over a period. Change the auto –off setting as follows:

Once the unit is selected, the default Auto-Off time  (5 mins) will be shown on the screen.

Wait for 2 seconds without touching any buttons, or press  button to remain on the default setting. Change the wrench's **Auto-off** time by pressing button. Select the shut-off time between **5 minutes, 15 minutes** or **"OFF"** to turn off the **Auto-off** function.


 Press button to confirm the selection. The wrench returns to measuring mode.


% **WARNING!** If no button is touched within 3 seconds, the wrench will remain at the last selection of unit, and return to measuring mode.

### PROGRAMMING THE TORQUE AND ANGLE

The wrench has five pre-sets for setting the target Torque value and Angle value.


#### TARGET TORQUE SETTING



Press  button to turn the wrench on.

Press and hold  the button for 5 seconds (or more if required) to select the memory storage number between.




Once the memory number is chosen, access the target Torque programming by pressing the  button.

When  is shown on screen, the "0000" or last saved torque value is displayed. The first digit of this value ("0000")

is flashing. Press  button to zero the last saved value OR by repeatedly pressing  button, the value of the flashing digit is gradually increased. When the desired value is achieved, press button to skip to the next digit. Repeat this process for all the digits, (ones, tens, hundreds etc.)



When the required torque is set, press  to save the pre-set value.


**NOTE:** "Erro" will be shown on the screen, when the pre-set torque does not exceed the minimal torque of 10% FS or over the 100% of torque value. After 1 second, the wrench returns to target torque value setting.


After pressing the  button access the torque setting mode, if no buttons are touched for 3 seconds, the torque wrench will quit automatically and return to measuring mode.

#### TARGET ANGLE SETTING

The display skips to angle setting automatically once the target torque is set, and displays the last saved Angle value. The first digit of this value ("000") is flashing.


Press  the button to zero the last saved value or by pressing the  button, the value of the flashing digit is gradually increased.

When the desired value for this digit is achieved, press  button to skip to the next digit. Repeat this process for all digits, (ones, tens, hundreds etc.)

When the required angle is set, press  to save the pre-set value.

Turning the display illumination on/off

. The display illumination can be turned on prior to or after programming the torque.

In order to do this, press and hold  the button for 5 seconds.

### OPERATING THE TORQUE WRENCH

Select the socket required for your work.

Attach the socket firmly to the square drive of the torque wrench, until it is kept in place by the ball stop of the square drive.

If possible do not use any extensions because they may distort the torque applied to a nut or bolt.

Place the tool on the bolt or nut. Grip the torque wrench handle and pull on the wrench with quick movements.

Avoid jerky movements.

With the target torque pre-set, the target value is indicated on the screen.


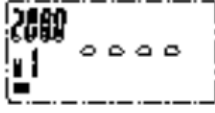
The LED light will be GREEN when you are under 50% of the programmed torque value.

As the target torque value is approached, the LED light will turn YELLOW.

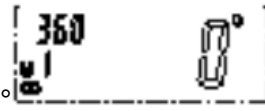
When you are within 2% of the programmed value, the LED will display RED and you will also feel the vibration of the handle.


Once you achieve (+/- 2Nm), the buzzer will emit a quicker sound sequence.

When you are over 2% of the programmed torque, the buzzer will emit a continuous tone and the LED will turn GREEN and you will also feel the vibration of the handle.

Press  button to switch to ANGLE measuring,  will be shown on the screen. Hold the wrench still and stable,

the wrench will self-test a few seconds, and show target angle and display 0°



Press  button to change clockwise or counter-clockwise direction. A “MINUS” symbol will appear in front of the displayed value for counter-clockwise direction.

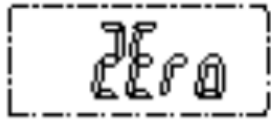
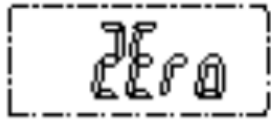
The LED light will be GREEN when you are under 50% of the programmed Angle value.


As you approach the target Angle value, the LED light will turn YELLOW.

When you are within 2% of the programmed Angle value, the LED will turn to RED.

When the programmed Angle has been achieved, the buzzer will sound and the handle will vibrate.

When you are over 2% of the programmed Angle, the LED turns to GREEN and the handle will vibrate.


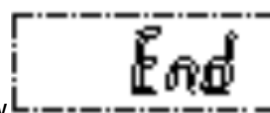
Press  button, the screen will show  to zero the Angle reading for the next application.

Press  button to quit Angle measurement mode, the display will show and return to torque measurement mode.

**NOTE:** When you hear the continuous tone, stop pulling immediately, especially in case the target torque/ angle is low.

Never use the torque wrench when it has a low battery. The wrench's accuracy will be affected.

“—” will be shown on the screen, when applying torque is exceeded at 100% of the maximum torque value.

Press  button to quit Angle measurement mode, the display will show  and return to torque measurement mode.

**NOTE: When you hear the continuous tone, stop pulling immediately, especially in case the target torque/ angle is low.**

**Never use the torque wrench when it has a low battery. The wrench's accuracy will be affected.**

**"—" will be shown on the screen, when applying torque is exceeded at 100% of the maximum torque value.**

## ENVIRONMENT PROTECTION



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



**REGISTER YOUR PURCHASE HERE**

## BATTERY REMOVAL



**Li-ion**

**Remove the batteries. Dispose of according to local government guidelines.**

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.



## WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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## Documents / Resources



[SEALEY STW310 Digital Torque Wrench with Angle Function](#) [pdf] Instruction Manual  
STW310 Digital Torque Wrench with Angle Function, STW310, Digital Torque Wrench with Angle Function, Torque Wrench with Angle Function, Wrench with Angle Function, Angle Function, Function

## References

- [User Manual](#)

[Manuals+](#)