

# Champro®



## 1/4" DRIVE DIGITAL TORQUE WRENCH MODEL NO: PRO235B

PART NO: 1700821

### USER INSTRUCTIONS

UK  
CA | CE



ORIGINAL INSTRUCTIONS

GC02/25 rev 1

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# INTRODUCTION

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Thank you for purchasing this CLARKE Torque Wrench. This CLARKE product has been designed to give long and trouble free service. If however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

## LIFETIME GUARANTEE

The lifetime guarantee covers defects in manufacture or materials during the lifetime of the tool, however this guarantee does not apply to the ratchet mechanism. Please keep your receipt which will be required as proof of purchase. This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for it's intended purpose.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

## ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste but according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

If disposing of this product do not dispose of with general waste. This product contains valuable raw materials. Metal products should be taken to your local civic amenity site for recycling of metal products.

## GENERAL SAFETY PRECAUTIONS

1. **NEVER** exceed the permitted maximum torque value for this wrench. Overloading the wrench could cause damage.
2. Ensure that associated adaptors, extensions and sockets are rated to equal or exceed the torque being applied.
3. **ALWAYS** use the correct size and type of socket for the nut/bolt.
4. **NEVER** use sockets showing wear or cracks.
5. **ALWAYS** pull the wrench towards you. **NEVER** push it away and adjust your stance to prevent a fall should something give way unexpectedly.
6. **NEVER** use the torque wrench or remove the batteries with wet hands.

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## OVERVIEW

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This torque wrench is designed to tighten nuts with precision and with careful and considerate use, the wrench will give years of reliable service. Features of the wrench include:

- LED Screen with backlight (Blue)
- Audible/Light Alarm (when pre-set target torque is reached)
- Auto Power-Off
- Peak Value Hold/Track selection
- Target Torque Value pre-set
- Low Battery indication
- Moulded Storage Case



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## SPECIFICATIONS

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<b>Model</b>	<b>PRO235B</b>
Drive Shank Size	1/4"
Torque Measuring Range	3-30 Nm
Selectable Unit of Measurement	Nm, Lbf-in, Lb-ft & kgf.m
Torque Function in Both Directions	Yes
Accuracy	+/- 2%
Overall length	337 mm
Weight	0.67 kg
Batteries required	2 x AAA (not included)
Operating temperature	0-40°C

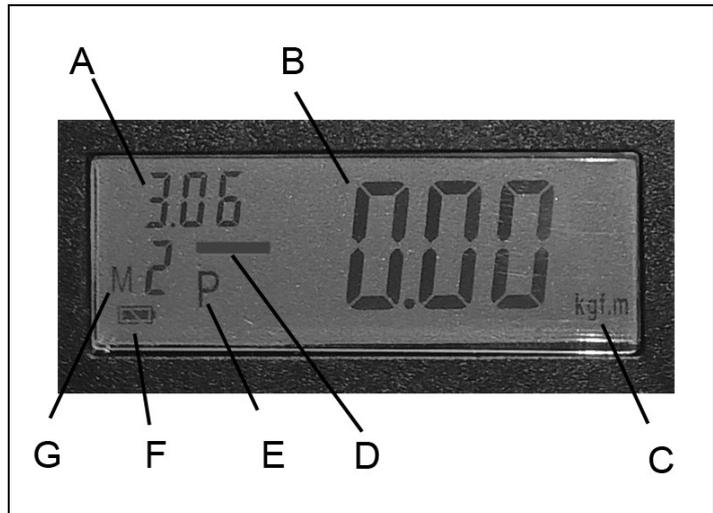
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## THE CONTROL PANEL

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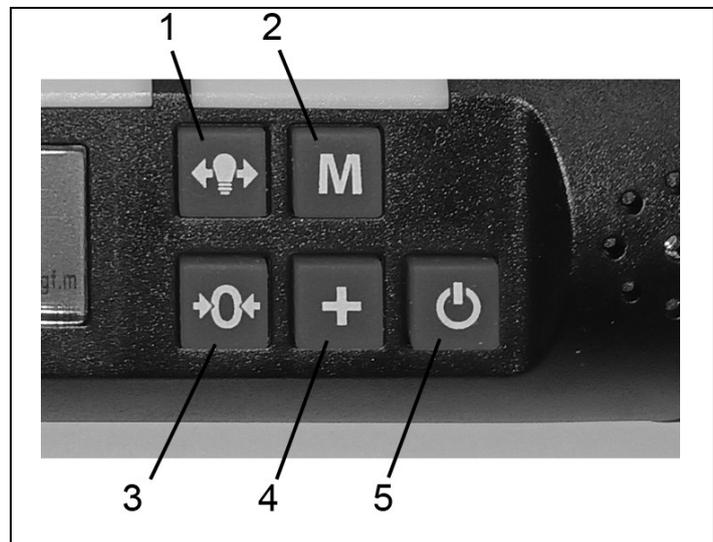
### THE DISPLAY

- A Target torque indicator
- B The value of torque displayed
- C Selectable units of measurement
- D Minus symbol for counter clockwise rotation
- E Peak/track mode
- F Battery Status indicator
- G Memory storage numbers



### PUSHBUTTON FUNCTIONS

1. Illuminates the display / press to move to the next digit.
2. Memorizes the torque setting value.
3. Zero/tare.
4. Changes the value of the pre-set torque.
5. Power ON/OFF button.



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## PREPARATION FOR USE

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### FITTING THE BATTERIES (BATTERIES NOT INCLUDED)

1. Unscrew the battery cap.
  2. Install batteries (2 x AAA) with their positive end inwards and screw the cap back on.
- If the batteries are in poor condition the  icon will flash during operation and new ones should be fitted.

### SWITCHING ON & OFF

1. Press the  button to turn the wrench on.

- The buzzer will sound and the LCD panel will display all characters. After 2 seconds the display will show 0.00.
  - The wrench will be in '**TRACK**' mode, i.e., it will measure and display the actual torque detected.
3. To manually turn the wrench off, press and release the  button.
  - If you do not use the wrench it will turn off automatically.
  4. **NEVER** turn the wrench off while force is applied.

## AUTO POWER-OFF

The torque wrench will turn off automatically if unattended.

Changing the auto –off setting is possible as follows:

1. Select the unit of measurement and the default Auto-Off time (eg 5 minutes) will be shown on screen.
2. Wait for 2 seconds without touching any buttons or press the  button to remain the default setting.
3. Change the Auto-off time by pressing the  button. Select the shut-off time between 5 minutes, 15 minutes or "OFF" to turn off the Auto-off function.
4. Press the  button to confirm the selection. The wrench will return to the measurement mode.

**NOTE:** If there is no button touching in 3 seconds, the wrench will remain the last selection of the Auto Power Off setting and return to Measuring mode.

## DISPLAY LIGHTING

1. Press the  button on the display lighting to come on.
2. Press again to turn the lighting off.

## SETTING 'PEAK' MODE

1. After turning on the display, the default is in " Track " mode, i.e. the real-time torque reached during operation will be displayed.
2. 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 will be flashing and you can continue for the next application or press the  button to zero before continuing.

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# SETTING UP THE WRENCH

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## SETTING PEAK AND TRACK MODE

1. Press  to turn the wrench on.
2. Enter the mode selection by pressing the  button.
3. Press the  button to select **T** (track) mode or **P** for peak mode.
4. Press the  button to confirm the selection. The wrench will switch to the UNIT setting automatically.

**NOTE:** If there is no activity within 3 seconds, the wrench will remain the last unit selection and return to measuring mode.

## SELECTING THE UNIT OF MEASUREMENT

1. Once the Peak / Track mode have been set, switch to the setting of "UNIT selection".
2. If **Nm** is shown on screen, select the units between N.m/ lbf.ft / lbf.in / kgf.m by pressing the  button.
3. Press the  button to confirm the unit selection. The wrench will switch to the setting of **Auto Power Off**.

**NOTE:** If there is no activity within 3 seconds, the wrench will remain the last unit selection and return to measuring mode.

## AUTO POWER OFF SETTING

The torque wrench will turn off automatically if no buttons are pressed for a given time.

You can change the Auto-Off setting as follows;

1. Once the unit is selected, the default Auto-Off time eg **5** (5 minutes) will be shown on the screen.
2. Wait for 2 seconds without touching any buttons or press the  button to remain at the default setting.
3. Change the torque wrench Auto-Off time by pressing the  button. Select the shut-off time between 5 minutes, 15 minutes or "OFF" to turn off the Auto-off function.
4. Press  to confirm the selection. The wrench then returns to measurement mode.

**NOTE:** If there is no activity within 3 seconds, the wrench will remain the last unit selection and return to measuring mode.

## SELECTING THE TORQUE SETTING

The wrench has 5 sets of memory storage for pre-setting the target torque.

1. Press the  button to turn the wrench on.
2. Press the  button to select the memory storage number between **M1~M5**.
3. Once the memory number is chosen, access the Target Torque program by pressing and holding the  button for 5~10 seconds.
4. Release the  button when **SEL** is shown on the screen and the last saved torque is displayed.
5. When the first digit of this value ("0000") is flashing press the  button to zero the last saved value or by repeatedly pressing the  button, the value of the flashing digit is gradually increased.
6. When the desired value is achieved, press the  button to skip to the next digit. Repeat this process for all digits. (ones, tens, hundreds etc)
7. When the required torque is set, press the  button to save the pre-set value. Repeat this process for all digits (ones, tens, hundreds etc).
8. When the required torque is set, press  to save this pre-set value.

CAUTION: "ERRO" WILL BE SHOWN ON THE SCREEN WHEN THE PRE-SET TORQUE DID NOT EXCEED THE MINIMAL TORQUE OF 10% FS OR OVER THE 100% MAXIMUM OF TORQUE VALUE. AFTER 1 SECOND, THE WRENCH RETURNS TO THE TARGET TORQUE VALUE SETTING.

CAUTION: AFTER PRESSING THE  BUTTON ACCESS THE TORQUE SETTING MODE, WITHOUT ANY BUTTONS TOUCHING OVER 5 SECONDS THE TORQUE WRENCH WILL QUIT AUTOMATICALLY AND RETURN TO MEASUREMENT MODE.

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## OPERATION

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1. Place the square drive on to the socket or extension bar, perpendicular to the nut/ bolt to be tightened. Smoothly tighten your fastening, applying even pressure throughout the operation.
2. **ALWAYS** use the correct size socket for the fastening and **NEVER** use sockets that are damaged. Sockets, adaptors and extension must be robust enough for exposure to the maximum possible torque.
3. Grasp the torque wrench handle and pull on the wrench with a steady movements.
4. With target torque pre-set the target value is indicated on screen.
  - The LED Light will be "yellow" when you reach 50% of the programmed torque value.
  - When approaching the programmed torque value the buzzer will sound
  - When you are within 2% of the programmed value the green light will be seen.
  - Once achieved (+/- 0.2 Nm), the buzzer will emit a quicker sound sequence.
  - When you are over 2% above the programmed torque the buzzer will emit a continuous tone and the LED will turn red. You will also feel a vibration of the handle.

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

NEVER USE THE TORQUE WRENCH WHEN THE WRENCH IS IN LOW BATTERY CONDITION. THE WRENCH ACCURACY WILL BE AFFECTED.

"- - - -" WILL BE SHOWN ON THE SCREEN, WHEN THE APPLIED TORQUE EXCEEDS 100% OF THE MAXIMUM OF TORQUE VALUE.

### CARE OF THE WRENCH DURING USE

1. Take care not to drop the wrench on a hard surface and re-set the unit as described under MAINTENANCE & CALIBRATION, should it be subjected to sudden shock.
2. Take care not to damage the LED display.
3. **NEVER** apply force with the torque wrench when the power is off. Always turn the unit on before using it.
4. For assured accuracy of the wrench, periodic self re-setting is desirable as described under MAINTENANCE & CALIBRATION.

5. Check that the wrench operating range is adequate for the anticipated load before proceeding. **DO NOT** exceed the maximum rating of the wrench (30Nm or equivalent units).
6. Re-set of the unit as described on page 7 if you believe its capacity may have been exceeded.
7. **NEVER** use the wrench to undo bolts & nuts which may be excessively tight. Very tight nuts and bolts should be loosened with a standard wrench and the torque wrench used only for re-tightening.
8. **DO NOT** expose the wrench to extreme temperature, humidity or direct sunlight for extended periods.
9. Avoid using knuckle or universal joints as these could possibly result in inaccurate torque readings.
10. Always pull,- **DO NOT** push the wrench handle. **NEVER** use the wrench with wet hands.

## STORAGE & CLEANING

1. Store in a clean, dry environment away from excess heat, humidity or dust.
2. If the wrench is not to be used for long periods of time it is advisable to remove the batteries to avoid the risk of leaking.
3. Clean by wiping the tool and the display with a soft cloth. **NEVER** immerse it in water or any type of solvent or cleaning fluid.

## MAINTENANCE & CALIBRATION

The wrench has been calibrated at the factory order to ensure accurate readings and should not require any re-calibration. The original calibration certificate should be supplied.

To restore the factory calibration settings perform the following procedure.

In measuring mode, press and hold  and  buttons at the same time.

Release the buttons until the screen appears showing the indicator "----" to reset the wrench. The factory settings will be restored.

If further inaccuracy is suspected contact your local CLARKE dealer.

**DO NOT** attempt to dismantle the wrench.

## BATTERY USE AND CARE

The batteries must be replaced if, when switching on, there is no reading on the display or the 'Battery Condition' indicator on the panel is empty.

Never combine used batteries with old ones or mix battery types. **NEVER** use a battery if it is cracked or damaged and always dispose of old batteries appropriately. **NEVER** either dump or incinerate old batteries.

# DECLARATION OF CONFORMITY - UK



Hemnall Street, Epping, Essex, CM16 4LG

## DECLARATION OF CONFORMITY

**This is an important document and should be retained.**

**We hereby declare that this product(s) complies with the following legislation:**

*The Electromagnetic Compatibility Regulations 2016*

*The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012*

**The following standards have been applied to the product(s):**

*EN IEC 61326-1:2021, IEC 62321-4:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017,  
IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-3-1:2013*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

**The UKCA mark was first applied in: 2024**

**Product Description:** Torque Wrench  
**Model Number(s):** PRO235B  
**Serial/Batch Number:** Refer to product/packaging label  
**Date of Issue:** 16/04/2024

**Signed:**

**J.A Clarke**

**Director**

# DECLARATION OF CONFORMITY- CE



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

## DECLARATION OF CONFORMITY

**This is an important document and should be retained.**

**We hereby declare that this product(s) complies with the following legislation:**

2014/30/EU                      *Electromagnetic Compatibility Directive*  
2011/65/EU                      *Restriction of Hazardous Substances (RoHS) Directive*

**The following standards have been applied to the product(s):**

*EN IEC 61326-1:2021, IEC 62321-4:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017,  
IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-3-1:2013*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

**The CE mark was first applied in: 2024**

**Product Description:**                      Torque Wrench  
**Model Number(s):**                      PRO235B  
**Serial/Batch Number:**                      Refer to product/packaging label  
**Date of Issue:**                              16/04/2024

**Signed:**

**J.A Clarke**  
**Director**

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SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

**Clarke® INTERNATIONAL** Hemnall Street, Epping, Essex CM16 4LG  
[www.clarkeinternational.com](http://www.clarkeinternational.com)