

# Clarke®



## 1/4" DRIVE DIGITAL TORQUE WRENCH

Model No: PRO235

PART NO: 1700635

# OPERATING & MAINTENANCE INSTRUCTIONS



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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.

## GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. 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 PROTECTION



Do not dispose of this product with general household waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of appropriately according to the laws governing Waste Electrical and Electronic Equipment at a recognised disposal facility.

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## GENERAL SAFETY PRECAUTIONS

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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 operate the torque wrench or remove the batteries with wet hands.

## OVERVIEW

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 Back Light (Blue)
- Audible/light Alarm (when pre-set target torque is reached)
- Auto Power-Off
- Peak Value Hold/Track selection
- Target Torque Value Preset
- Low Battery Indication
- Moulded Storage Case



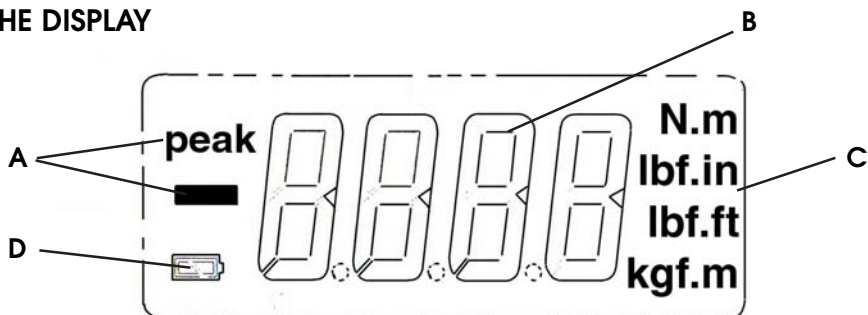
## SPECIFICATION

PRO235	
Drive Shank Size	1/4"
Torque Range	3-30 Nm
Selectable Torque Unit	Nm, lb-in, lb-ft & kg-m
Torque Function in both directions	Yes
Accuracy	+/- 2%
Overall Length	275 mm
Weight	0.54 kg
Batteries Required	2 x CR2032 (3-volt)
Battery Life	60 Hr
Operating Temperature	0-40° C

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

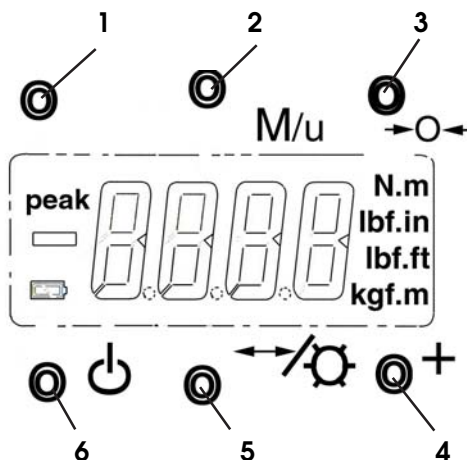
# THE CONTROL PANEL

## THE DISPLAY



- A Peak/Track mode indicator
- B The value of torque measured/preset value displayed
- C Selectable units of measurement
- D Battery Condition indicator

## THE PUSHBUTTONS




- 1. Warning LED illuminates when pre-set torque is reached
- 2. **M/u** button for measurement unit selection and to select between 'Track' and 'Peak' modes
- 3. Zero/tare.
- 4. Change the value of the pre-set torque.
- 5. Illuminating the display / press to move to the next digit.
- 6. Power ON/OFF button.

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## PREPARATION FOR USE

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
### FITTING THE BATTERIES

1. Unscrew the battery cap.
2. Install batteries (2 x CR2032 as supplied) with their marked faces outwards, 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.
  - Typical life of the batteries is 60 hours continuous use.

### SWITCHING ON & OFF

1. Press the  button to turn the wrench on.
  - The LCD panel will display all characters and 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 for 3-4 minutes it will turn off automatically.
4. Never turn the wrench off while force is applied.

### DISPLAY LIGHTING

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



### HOW TO SET 'TRACK' OR 'PEAK'

1. Press and release the **M/u** button to exit **peak**, if **track** is preferred.
  - The display can alternate between **peak** and **track** (track is the default mode and is not displayed).

### HOW TO SELECT THE UNIT OF MEASUREMENT'

1. Press and hold the **M/u** button for 2 secs.
  - The display will scroll quickly through the available units of measurement. (N.m, lbs-in, lbf.ft and Kgf.m).
2. Release the **M/u** button when your required unit is shown.


## HOW TO SELECT PRE-SET TORQUE SETTING

1. With the wrench in either **peak** or **track** mode, and the unit of measurement already chosen, press the **+** (**SEt** will flash briefly) the torque value is displayed with the first digit flashing.
2. Press the **+** within 5 seconds to increase the number until the required value is reached.
3. Press  to move to the right and select the number using the **+** button.
  - The target torque will display for 3 seconds, then revert to 0.00.
4. Press **M/u** to set the value.
5. Press and hold the  to clear the display and take another reading.
  - Again this will display for 3 seconds then revert to 0.00.

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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 an even pressure throughout the operation.
  - As the target torque setting is approached, the LED will flash and the alarm will beep, before a continuous tone and light when the target torque is reached or exceeded.
  - If in **PEAK** mode, the red LED will light up and the alarm will beep when the target torque is reached and the highest measured reading will be displayed and stored. Press the  to clear this reading before taking another measurement.

## 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 LCD 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 necessary 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 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 settings.

## 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.

If inaccuracy is suspected, contact your local Clarke dealer.

To maintain the accuracy of the wrench periodically reset by holding the **M/u** and **→O←** buttons together.

Do not attempt to dismantle the wrench.

## BATTERY USE AND CARE

1. If when switching on, there is no reading on the display, or the 'Battery Condition Indicator' on the panel is empty, the batteries must be replaced.
2. Never combine used batteries with old ones or mix battery types.
3. Never use a battery if it is cracked or damaged.
4. Always dispose of old batteries appropriately. Never either dump or incinerate old batteries.

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