Clarke®

Pro

DIGITAL TORQUE WRENCH
MODEL NO: PRO236 & PRO237

PART NO: 1700636 & 1700637

USER INSTRUCTIONS

UK CA | CE

ORIGINAL INSTRUCTIONS

GC0225 - Rev 6

INTRODUCTION

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 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 recognized disposal facility.

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** 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, it will give years of reliable service. Features of the wrench include:

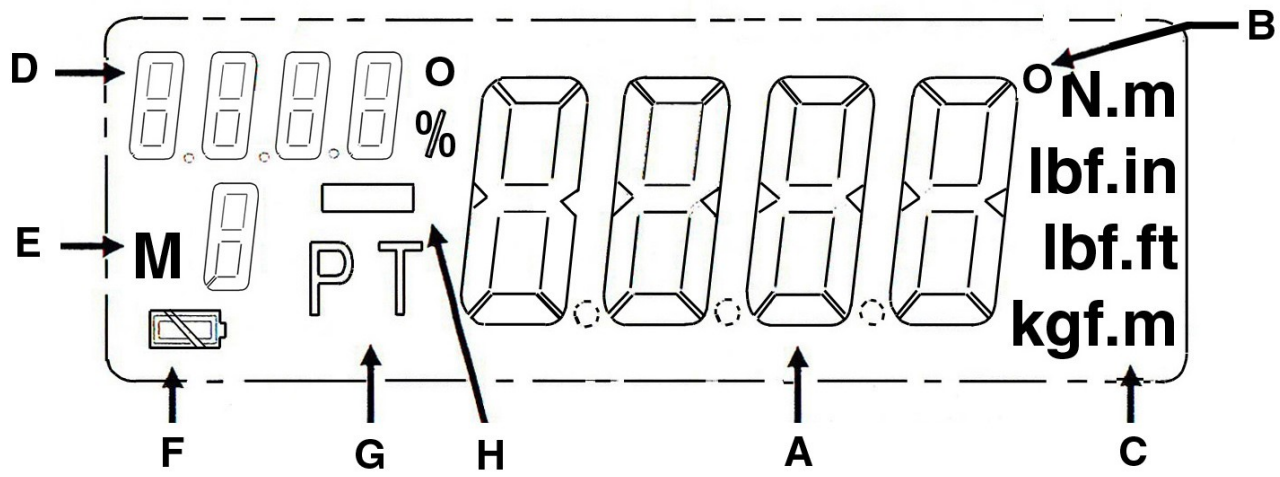
- LED Screen with Back Light (Blue)
- Audible/light Alarm (when pre-set target torque is reached)
- Auto Power-Off
- Peak Value Hold
- Target Torque Value Preset
- Low Battery Indication
- Moulded Storage Case

SPECIFICATIONS

	PRO236	PRO237
Drive Shank Size	3/8”	1/2”
Torque Range	10-135Nm	20-200 Nm
Selectable Unit of Measurement	Nm, ib-in, il-ft & kg-m	
Torque Function in Both Directions	Yes	
Accuracy	+/- 2%	
Overall length	490 mm	608 mm
Weight	1.3 kg	1.5 kg
Batteries required	4 x AAA	
Battery life	60 Hr	
Operating temperature	0-40^{o}C	

THE CONTROL PANEL

THE DISPLAY



A Real time' torque value display

B The units of 'Angle' (always 0)

C Unit of measurement

D Target Torque Indicator

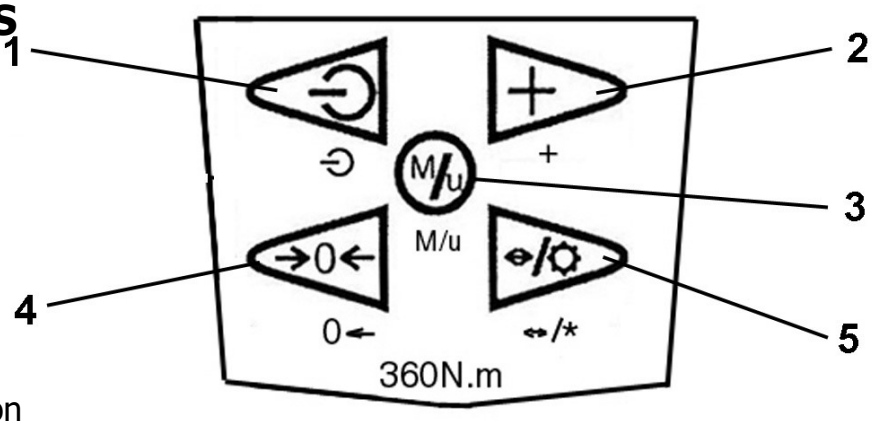
E Memory Storage numbers

F Battery Condition Indicator

G Peak/Track mode Indicator

H Minus symbol for anti-clockwise operation

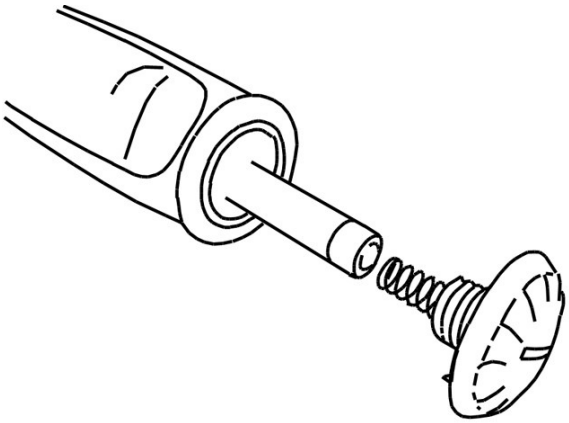
THE PUSHBUTTONS



1. Power ON/OFF button
2. Button to select Memory storage /unit selection.
3. Button to access & accept the Auto On/Off, Measurement units and Track or Peak mode selection including pre-set torque values.
4. Button to zero the selected values.
5. Button to illuminate the display / select the next digit.

PREPARATION FOR USE

INSTALLING THE BATTERIES



1. Open the cover of the battery compartment by turning it anti-clockwise & insert four AAA batteries as shown. Close the compartment cover and the wrench is ready to use.

TURNING THE WRENCH ON /OFF

1. Press the button to turn on.
   - The unit will bleep and the complete display screen will momentarily light up.
2. Press the button again to turn the system off.

TURNING THE DISPLAY ILLUMINATION ON/OFF

1. The display illumination can be turned on or off by pressing the button.

AUTO POWER-OFF SETTING

When enabled, this setting means that the wrench will turn off automatically if no buttons are pressed during a given time. Change the **Auto/Off** setting as follows:

1. Once the unit is powered up, press M/u three times and the default **Auto/Off** time of **5** (5 minutes) is shown on the display.
2. Press the + button to select the shut-off time of 5 or 15 minutes, or **OFF** to turn off the Auto-Off function.
3. Press the M/u button to confirm the selection. The wrench will return to the measurement mode.

NOTE: If no buttons are touched for 3 seconds the wrench will return to the measurement mode.

SELECTING THE PEAK OR TRACK MODE

1. After turning on the display, the system defaults to **"Track"** mode, i.e. the real-time torque during use will be displayed.
2. Enter the + selection by pressing the M/u button once.
3. Press the M/u button to select T (track) mode or P (Peak) mode.

4. Press the M/u button three times to confirm the selection and return to the measurement mode.

NOTE: If no buttons are pressed for 3 seconds the wrench will remain at the last selection of 'Peak' or 'Track' mode & return to Measurement mode.

When in **'Peak**' mode, the maximum torque value measured will be saved and be shown on the display until the next task is performed. You can then proceed to the next action or press →0← to zero the wrench.

SELECTING UNITS OF MEASUREMENT

1. Press the M/u button twice to select "**UNIT SELECTION**".
2. Press the + button repeatedly to select either N.m / lbf.ft / lbf.in / kgf.m.
3. Press the M/u button twice to confirm the unit selection.

NOTE: Note; If no buttons are pressed for 3 seconds the wrench will remain at the last unit of measurement selected, and return to 'Measurement' mode.

TARGET TORQUE SETTING

The wrench offers 5 pre-set alarm values (M1to M5) for the target torque. These values must always be at least 10% of the maximum capability of the wrench.

The wrench will be delivered with all 5 values pre-set to the maximum permitted (100%). Note that setting these alarm values will not prevent the wrench from measuring to its maximum capability.

If using the wrench with no pre-set alarms in use, one pre-set value must always remain set to 100% of the wrench maximum operating torque. The target torques are alarm values and the unit will always measure throughout its operating range.

When the pre-set alarm values have been set, the wrench will always default to the last value used as indicated by the setting number (M1 to M5).

To set the pre-set alarm values proceed as follows.

1. Press the ⏻ button to turn the wrench on.
2. Press the + button repeatedly to select the pre-set location (M1 to M5).
3. To set the torque value, press and hold the + button for 2 secs.
   - When the desired value is reached, press the ⚙ button to move to the next digit. Repeat this for all digits.
   - SEt is shown on the screen and the last saved value is displayed with the first digit flashing.
4. Press the →0← button to zero the digit or repeatedly press the + button, to increase the value of the flashing digit.

5. When the required torque is set, press  to save the pre-set value at the current memory location.

NOTE: "ERRO" will be shown if the pre-set torque is less than the minimum value of 10% capacity or exceeds the 100% maximum capacity. After 3 seconds, the wrench returns to the target torque value setting.

NOTE: After pressing the  button to access the torque SELECT mode, if no selection is made with 3 seconds the wrench will return to the measurement mode.

OPERATION

CAUTION: NEVER USE THE TORQUE WRENCH WHEN THERE IS A LOW BATTERY CONDITION AS THE ACCURACY WILL BE AFFECTED.

CAUTION: NEVER EXCEED THE PERMITTED MAXIMUM TORQUE VALUE FOR THIS WRENCH. OVERLOADING COULD CAUSE DAMAGE.

1. Select the socket required and attach it to the square drive. If possible, avoid the use of flexible extensions or universal joints which could possibly result in inaccurate torque readings.
2. Engage the nut or bolt and apply a steady pull with the wrench.
   - As the torque reaches half the target value, the LED will show a yellow light, as the target torque is reached, the LED will illuminate in green and the alarm will bleep. When the target is exceeded by approximately 2% the LED will show a red light accompanied by a continuous alarm tone.
   - If in the **PEAK** mode, the measured torque will be displayed and the highest value measured will remain as a flashing display until the wrench is re-set for the next measurement by pressing the  button, or the wrench reaches the time limit to automatically power-off.
   - If in the **TRACK** mode, the actual torque applied at any moment will be displayed.
3. When the continuous tone is heard, you have reached/exceeded your target torque, so stop pulling immediately.

NOTE: If the wrench is operated to its maximum range, the coloured LED will indicate green at 98% of the range, yellow at 100% and then change to red with a continuous tone and **'ERRO'** displayed above this point.

CARE OF THE TORQUE WRENCH DURING USE

1. For assured accuracy of the wrench, periodic self re-setting is necessary as described under MAINTENANCE & CALIBRATION.
2. Check that the wrench capacity is adequate for the anticipated load before proceeding and do not exceed the maximum torque setting for the wrench as stated in the Technical Specification.
3. Re-set the wrench as described under MAINTENANCE & CALIBRATION, if you believe its capacity may have been exceeded.
4. **NEVER** apply force with the torque wrench when the power is off. Always turn the unit on before using it.
5. Take care not to damage the LCD display.

6. Take care not to drop the wrench and re-set it as described under MAINTENANCE & CALIBRATION, should it be subject to sudden shock.
7. **NEVER** press the  button to turn the wrench off while force is applied.
8. **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.
9. **DO NOT** expose the wrench to extreme temperature, humidity or direct sunlight for extended periods.

STORAGE

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.

Store in a clean, dry environment away from excess heat, humidity or dust.

CLEANING

Clean the wrench 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 device has been calibrated at the factory 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

1. 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.
2. **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-PRO236

CE

Clarke® 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 directive(s):

2014/30/EU *Electromagnetic Compatibility Directive*

2011/65/EU *Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment (RoHS) Directive*

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

EN 61326-1:2021, IEC 62321-3-1:2013, IEC 62321-4:2013/AMD:2017, IEC 62321-5:2013,

IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-6:2015, IEC 62321-8:2017.

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

The CE mark was first applied in: 2023

Product Description:	3/8" Drive Digital Electronic Torque Wrench
Model number(s):	PRO236
Serial / batch Number:	N/A
Date of Issue:	17/01/2023

Signed:

J.A. Clarke

Director

UK CA

Clarke® INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

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We hereby declare that this product(s) complies with the following statuary requirement(s):

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

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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: 2023

Product Description:	3/8" Drive Digital Electronic Torque Wrench
Model number(s):	PRO236
Serial / batch Number:	N/A
Date of Issue:	17/01/2023

Signed:

J.A. Clarke

Director

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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: 2023

Product Description:	1/2" Drive Digital Electronic Torque Wrench
Model number(s):	PRO237
Serial / batch Number:	N/A
Date of Issue:	17/01/2023

Signed:

J.A. Clarke

Director

CE

Clarke® INTERNATIONAL

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

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Product Description:	1/2" Drive Digital Electronic Torque Wrench
Model number(s):	PRO237
Serial / batch Number:	N/A
Date of Issue:	17/01/2023

Signed:

J.A. Clarke

Director

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