

Clarke®



DIGITAL TORQUE ADAPTOR

Model No: PRO238

PART NO: 1700638

OPERATING & MAINTENANCE INSTRUCTIONS



INTRODUCTION

Thank you for purchasing this CLARKE Torque Adaptor.

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.

GENERAL SAFETY PRECAUTIONS

1. Never exceed the permitted maximum torque value for this device. Overloading 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 adaptor 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
- Audible Alarm/LED Indicator
- Auto Power-Off
- Peak Value Hold/Track selection
- Target Torque Value Preset
- Low Battery Indication
- Moulded Storage Case



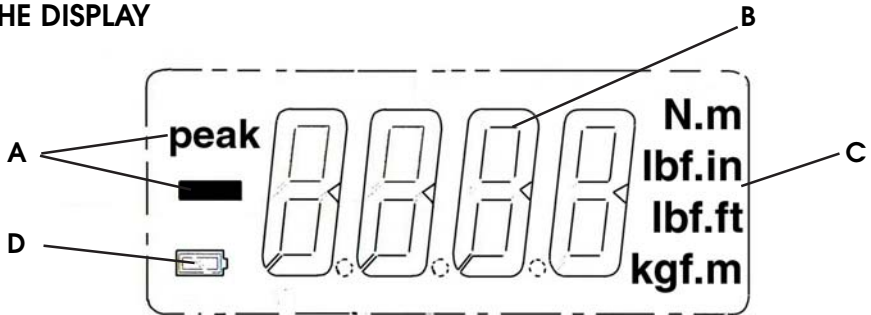
SPECIFICATIONS

| | |
|------------------------------------|-------------------------|
| Drive Shank Size | 1/2" |
| Torque Range | 30-360 Nm |
| Selectable Torque Unit | Nm, lb-in, lb-ft & kg-m |
| Torque Function in Both Directions | Yes |
| Accuracy | +/- 4% |
| Dimensions (D x W x H) | 100 x 50 x 45 mm |
| Weight | 0.32 kg |
| Batteries Required | 2 x CR2032 (3 Volt) |
| 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.

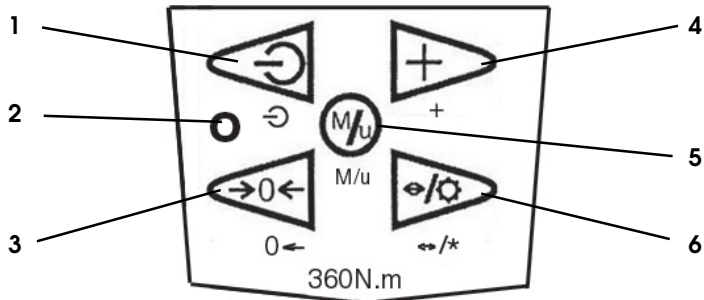
THE CONTROL PANEL

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. Power ON/OFF button.
- 2. Warning LED illuminates when the pre-set torque is reached.
- 3. Zero/tare.
- 4. Increase the value of the pre-set torque.
- 5. Measurement unit selection & to select between 'Track' & 'Peak' modes.
- 6. Illuminating the display / press to move to the next digit.

PREPARATION FOR USE


FITTING THE BATTERIES

1. Remove the screw securing the battery cover to the back of the unit and lift off the cover.
2. Install batteries (2 x CR2032 as supplied) with their marked faces to the right, and refit the cover.
 - 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 device on.
 - The LCD panel will display all characters and after 2 seconds the display will show 0.0.
 - The adaptor will be in **'track'** mode, i.e., it will measure and display the actual torque detected.
2. To manually turn the adaptor off, press and release the  button.
 - If you do not use the adaptor for 3-4 minutes it will turn off automatically.
3. Never turn the adaptor off while force is applied.



DISPLAY LIGHTING

1. Press the button  to illuminate the back light.
2. Press again to turn the back light off.








HOW TO SET 'TRACK' OR 'PEAK'

1. Press the  button to select **the current torque value or Peak (the max torque value)**, if preferred.
 - The display can alternate between **Peak** and **Track** (Track is the default mode but only Peak will be displayed when selected).


HOW TO SELECT THE UNIT OF MEASUREMENT'

1. Press and hold the  button for 3 secs.
 - The display will scroll quickly through the available units of measurement. (N.m, lbs-in, lbf.ft and Kgf.m).
2. Release the  button when your required unit is shown.

HOW TO SELECT TORQUE SETTING

1. With the unit of measurement already chosen, press the  (**SET** will flash briefly) and the torque value will be displayed with the first digit flashing.
 - The value will display for 3 seconds then revert to 0.0, i.e., step 2 must be commenced within 3 seconds.
 - The value chosen must always be at least 10% of the maximum capability of the wrench.
2. Press and hold the  to zero the display and set another value.
3. Press the  to increase the number until the required value is reached.
4. Press   to move to the right and select the next number using the  button.
 - The target torque will display for 3 seconds, then revert to 0.0.
5. Press  to set the value.

OPERATION

1. Connect the bottom (male) square drive of the adaptor, to the socket or extension bar, perpendicular to the nut/bolt to be tightened.
2. Connect any 1/2" square drive wrench to the top (female) socket of the adaptor.
3. Smoothly tighten your fastening, applying an even pressure.
 - If in **TRACK** mode, the actual torque applied at any moment will be displayed. As the target torque setting is approached, the LED will flash and the alarm will bleep, 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 audible warning sound will be heard when the target torque is reached and the highest measured reading will be displayed. Press the  button to clear this reading before taking another measurement.

CARE OF THE WRENCH DURING USE

1. Take care not to drop the adaptor 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 adaptor when the power is off. Always turn the unit on before using it.

4. For assured accuracy of the adaptor, periodic self re-setting is necessary as described under MAINTENANCE & CALIBRATION.
5. Re-set the adaptor if you believe its capacity may have been exceeded.
6. Check that the adaptor operating range is adequate for the anticipated load before proceeding. Do not exceed the maximum rating of the adaptor (360Nm or equivalent units).
7. Never use the adaptor to undo bolts & nuts which may be excessively tight. Very tight nuts and bolts should be loosened with a standard wrench and the torque adaptor used only for re-tightening.
8. Do not expose the adaptor 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 adaptor 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 adaptor and the display with a soft cloth. Never immerse it in water or any type of solvent or cleaning fluid.

MAINTENANCE & CALIBRATION

The adaptor has been calibrated at the factory in 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 adaptor periodically reset by holding the  and  buttons together.



Do not attempt to dismantle the adaptor.

BATTERY USE AND CARE

1. If when switching on, if there is no reading on the display, or the 'Battery Condition Indicator' on the panel is empty or flashing, 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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