

Clarke®



DIGITAL TORQUE ADAPTOR
MODEL NO: CDTA200

PART NO: 1700831

USER 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 the purpose for which it was intended.

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 in the event of failure. 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 device. Overloading could cause damage.
2. **ALWAYS** 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 adaptor is designed for tightening nuts with precision and with careful and considerate use it will give years of reliable service. Features of the torque adaptor include:

- LED Screen with Back Light
- Audible Alarm /LED Indicator
- Auto Power-Off
- Peak Value Hold/Track selection
- Target Torque Value Pre-set
- Low Battery Indication

The device is supplied with

- Moulded storage case
- Phillips screwdriver (battery removal)
- Adaptor 3/8"
- Adaptor 1/4"



SPECIFICATIONS

Model	CDTA200
Drive Shank Size	1/2"
Torque Range	40-200 Nm
Selectable Unit of Measurement	Nm, Lb-in, Lb-ft & kg-cm
Torque Function in Both Directions	Yes
Accuracy	+/- 2%
Dimensions (D x W x H)	125 x 39 x 35 mm
Weight (inc case)	0.49 kg
Batteries required	2 x 1.5V AAA
Battery life	60 Hr
Operating temperature	-10 - 60°C
Memory capacity	50 records

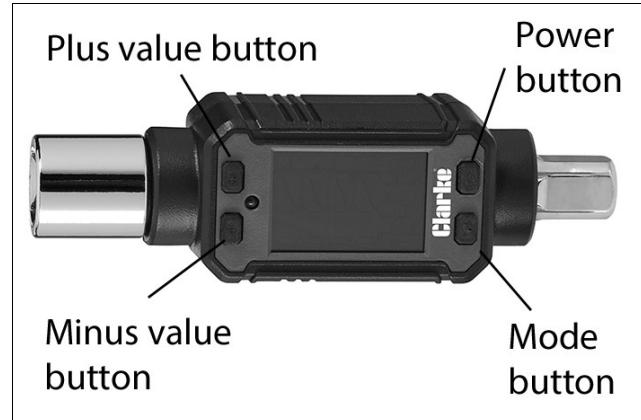
THE CONTROL PANEL

THE PUSHBUTTONS

1. Power ON/OFF button
2. Program (M) button
3. “+” button
4. “-” button

THE DISPLAY

- Peak/Track mode indicator
- The value of torque measured/ pre-set value displayed /Warning LED illuminates when pre-set torque is reached.
- Selectable units of measurement
- Battery Condition indicator



PREPARATION FOR USE

FITTING THE BATTERIES

1. Use the phillips screwdriver supplied, to remove the screws securing the battery cover to the back of the unit and lift off the cover.
2. Install batteries (2 x AAA) in the correct polarity and refit the cover.
 - If the batteries capacity is low the BATTERY icon will flash during operation and new ones should be fitted.



USING THE DEVICE

When using, please note the maximum torque of the respective tool and adjust the torque adapter accordingly up to the maximum torque value of the selected tool insert. Always follow the torque specified by the manufacturer of the object being tightened. A screwed fastening that is tightened too much or too little may lead to dangerous situations.

SWITCHING ON

Press and hold the On / Off switch **for at least 3 seconds**.

- The previously configured working mode appears on the LC display, followed by the previously configured unit of measurement "0.0".

SWITCHING OFF

Press and hold the On / Off button **for at least 3 seconds**.

- The device turns off automatically if it is not used for about 80 seconds.

SELECT WORKING MODE

This product has two modes

- **PEAK HOLD:** In this mode, the currently applied torque is displayed and the highest value reached ("peak value") is frozen.
- **TRACE:** In this mode, the currently applied, increasing and decreasing torque is displayed.

To choose between "PEAK HOLD" and "TRACE" modes press the On/Off button and program button simultaneously.

- The respective mode is shown at the top of the LC display.



SELECT UNIT OF MEASUREMENT

You can choose between the following units when displaying the torque values: kg/cm, lb-in, lb-ft, N-m

Press the "+" button and "-" button simultaneously.

- The respective mode is shown on the right side of the LC display.

PRE-DEFINING THE TORQUE VALUE

The torque adapter has the option of emitting an audible and visual signal in both working modes when a predefined torque value is reached.

- Press either the “+” button to increase the threshold or the “-” button to decrease it.
- Wait for a few seconds.
- The defined value flashes on the LC display until it returns back to the preset mode.
- The LC display then shows "0.0" again.

RECORDING / RETRIEVING THE TORQUE VALUE

You have the option to record the “Peak” value in “PEAK HOLD” mode for later reference/retrieval.

1. Select the "PEAK HOLD" working mode (see section "Selecting the Working Mode").
2. Tighten your screw connection.
 - The highest value reached ("peak value") is frozen on the LC display.
3. Briefly press the M button.
 - The peak value is stored in memory location P01 and all previously existing memory locations shift up by one place.
 - The value previously stored in memory location P01 is now stored under P02 and the value that was previously stored in memory location P50 is deleted.

4. Proceed as follows to view/ retrieve the recorded peak value:

5. Briefly press the M button.
 - The value previously stored in memory location P01 is displayed.

By pressing the M button several times, you can always shift one storage space up.

- After reaching the maximum memory (P50) the system automatically changes to the beginning of the memory.
- 6. Press and hold the **M** button for at least 3 seconds.

The torque value is now predefined in both working modes and the torque adapter will emit an audible and visual signal when the value is reached.

OPERATION

MOUNTING/REMOVING THE TORQUE ADAPTER

The maximum torque of the drive tool must be more than the maximum torque of the torque adapter.

Insert the torque adapter with the input drive profile: Square profile (inner) 1/2" on the connecting square of the drive tool.

If necessary, first mount a 3/8" 14 or 1/4" adapter 15 depending on the socket of your drive tool onto the square profile (inner).

Briefly press any eject button on the drive tool and slide the input drive profile: square profile (inner) 1/2" completely onto the connecting lug until it locks in place.

Check that it is seated properly by slightly pulling the torque adapter.

Press the eject button on the drive tool and remove the torque adapter from the connecting lug.



MOUNTING/REMOVING THE TOOL SOCKETS

NEVER use inappropriate or damaged sockets.

Use only proper and appropriate sockets according to DIN 3124.

The maximum torque of the socket must be more than the maximum torque of the desired **tightening torque**. *Check this each time before use.*

Mount a socket (not included) with the square drive (inner) onto the input drive profile: Square drive (outer) 1/2".

Check that it is seated properly by slightly pulling the socket.

To remove, pull the socket by applying more force from the input drive profile.

CARE OF THE WRENCH DURING USE

1. Take care not to drop the adaptor on a hard surface or damage the LCD display.
2. **NEVER** apply force with the adaptor when the power is off. **ALWAYS** turn the unit on before using it.
3. Check that the adaptor operating range is adequate for the anticipated load before proceeding. **DO NOT** exceed the maximum rating of the adaptor.

4. **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.
5. Do not expose the adaptor to extreme temperature, humidity or direct sunlight for extended periods.
6. 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 or humidity.
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 device has been calibrated at the factory to ensure accurate readings and should not require any re-calibration. If inaccuracy is suspected contact your local CLARKE dealer. **DO NOT** attempt to dismantle the unit.

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-UK

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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 62321-4:2014/A1:2017, BS EN IEC 62321-2:2021, EN IEC 61000-6-3:2021, EN 62321-7-1:2015,

EN IEC 61000-6-1:2019, EN 62321-1:2013, EN 62321-6:2015, EN 62321-5:2014, EN 62321-8:2017,

EN 62321-3-1:2014, EN 62321-7-2:2017

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: Digital Torque Adapter
Model Number(s): CDTA200
Serial/Batch Number: Refer to product/packaging label
Date of Issue: 15/11/2024

Signed:



J.A Clarke

Director

DECLARATION OF CONFORMITY-CE

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 legislation:

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

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

*EN 62321-4:2014/A1:2017, BS EN IEC 62321-2:2021, EN IEC 61000-6-3:2021, EN 62321-7-1:2015,
EN IEC 61000-6-1:2019, EN 62321-1:2013, EN 62321-6:2015, EN 62321-5:2014, EN 62321-8:2017,
EN 62321-3-1:2014, EN 62321-7-2:2017*

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: Digital Torque Adapter
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Signed:



J.A Clarke

Director

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