



"DIGITAL TORQUE-ANGLE ADAPTOR"

Rev.: 112018

FG 546/DG



INSTRUCTIONS FOR USE

ENGLISH



ATTENTION

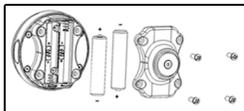
- Do not leave this adaptor in any place exposed to excessive heat, humidity, or direct sunlight.
- Do not use this apparatus in water (it is not waterproof). If the meter gets wet, wipe it with a dry towel as soon as possible.
- Do not use organic solvents, such as alcohol or paint thinner when cleaning the adaptor.
- Do not expose this adaptor to dust or sand as this could cause serious damage.
- Do not apply excessive force to the LCD panel.
- Never use this adaptor in a potentially explosive atmosphere.
- Never use this adaptor in a potentially flammable atmosphere.

Technical features

ANGLE RANGE:	1°±360°
ANGLE ACCURACY:	±2° (for rotation of 90°@30°/sec)
TORQUE RANGE:	10÷200 Nm (accuracy: ±3% (CW); ±4% (CCW))
TORQUE RANGE IN ACCORDANCE WITH 6789:2017 STANDARD:	40÷200 Nm (accuracy: ±2% (CW))
RISOLUTION	0.1 Nm / 0.1°
PRE-SETTING NUMBER:	9
DATA MEMORY SIZE:	50
LED:	12 (2 red + 10 green)
TORQUE MODE:	Peak / Track
UNITS OF MEASURE:	Nm; ftlb; inlb; kgcm; gradi
BUTTONS:	5
BATTERY:	2 pcs of AAA battery
OPERATING TEMPERATURE:	-10°C÷60°C
STORAGE TEMPERATURE:	-20°C÷70°C
UMIDITY:	up to 90% (non-condensing)
SQUARE DRIVE:	1/2"
WEIGHT:	243 g
DIMENSIONS:	Ø85mm

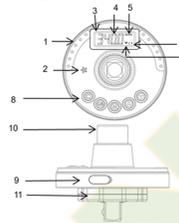
Battery installation

- Loosen the screw of the battery cap.
- Insert two AAA batteries matching the +/- polarities of the battery to the battery compartment.
- Fasten the screw of the battery cap.



Description

This instrument has been designed to be used in conjunction with levers / ratchets to carry out torque or angle measurements both left-handed and right-handed on screws / nuts.



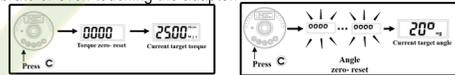
- LED indicator
- Buzzer
- LCD display
- Torque/Angle value
- Units
- Peak/Track Mode
- Memory number
- Buttons
- Buttons
10. 1/2" female square drive
- Battery cover

Functions

- POWER ON

Press **C** to power on the adaptor. Auto zero-reset will be processed first. The adaptor will be started in torque or angle mode. Which mode will be started depends on in which mode the adaptor is powered-off last time. In torque mode, first is torque zero-reset and then a target torque screen will show. In angle mode, it first do several seconds of angle- zero-reset and then a target angle screen will show.

ATTENTION: During angle reset, keep the adaptor still and never shake, vibrate or even touching the adaptor.



- AUTO POWER OFF

The adaptor will auto power off after about 2 minutes idle for power saving.

- ZERO RESET

Press **C** for zero reset.



Usually zero reset the digital torque-angle adaptor before use. It will guarantee a better accuracy.

- ADAPTOR RESET

To do hardware reset, remove battery and re-install it.

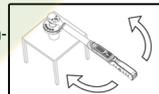
Use



1. Install the adaptor and press **C** to power on it.

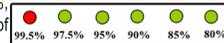
2. SET TARGET TORQUE OR ANGLE. Press **US** to select the unit. Then press **A** to set target value. Note that the target value will be saved automatically with the current M number discarding torque or angle. Another way is to press **M** to select the pre-set target value (M1-M9).

3. CHECK P/T MODE OF TORQUE.



4. Rotate the adaptor clockwise or counter-clockwise.

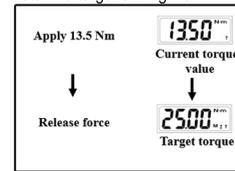
5. There are 6 LEDs to indicate the current torque or angle reaching 80%, 85%, 90%, 95%, 97.5% and 99.5% of target torque/angle.



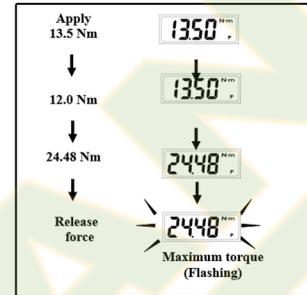
There is also a buzzer to indicate the reaching level of target value. Interval sound means it reaches over 80% and long sound means it reaches over 99.5% of target value.



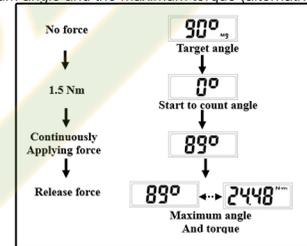
6. Track Mode (T). In T-mode, if a force is applied on adaptor, LCD displays and tracks the current torque value. After releasing force, the LCD value will return to target setting view.



Peak Mode (P). In P-mode, LCD displays the maximum torque value. After releasing force, the LCD shows the maximum value. (flashing).

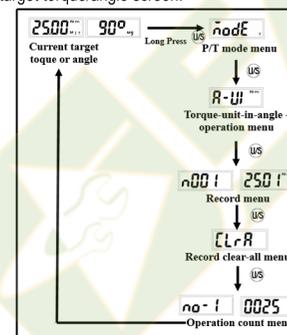


Angle value. In angle mode, LCD displays the angle rotated. The angle is counted after the rotation torque has been reaching over 5% of the rated maximum torque. After releasing force, the LCD shows the maximum angle and the maximum torque (alternatively).



Menu Setup

From the target torque/angle screen, **US** long press to go into setup menu. Continuously press **US** can visit the P/T mode menu, torque-unit-in-angle-operation menu, record menu, record clear-all menu, operation count menu. Finally press **US** again to skip out the setup menu and go back to the target torque/angle screen.



Error message



If the battery voltage is too low, the meter will display a battery symbol and then turn off. Replace batteries.



When it shows during power-on process, it means this adaptor has ever been applied more than 110% of torque of the spec. The accuracy of torque may be lost.



In angle mode, if the adaptor does not reset successfully for a period of time, this error will be shown. Press **C** to do zero-reset again. Notice that during resetting process, never vibrate or shake the meter. Keep it rest.



It shows that the adaptor does not work functionally, please do hardware reset. Refer to "ADAPTOR RESET".



In angle mode, if the adaptor rotates too fast, this error will be shown. Do press **C** to zero reset the adaptor.

Disposal informations

This tool respects the field of application of the Directive 2012/19/EU (RAEE). The symbol of barred basket present on the product and/or on the box, means that at the end of life the product must separately be treated from the domestic dusts and therefore he must be ship to the special centres of disposal and recycling. This operation has to be loaded by the consumer. The disposal of the product near the special devoted structures contributes to avoid the possible negative effects on the environment and increase the use of the renewable resources.



EU declaration of conformity

This product is in accordance with the following European directives and standards:
RoHS directive: 2011/65/EU
EMC directive : 2014/30/EU (EN 61000-6-2: 2005+AC: 2005; EN 55011: 2009+A1:2010; IEC 61000-4-2: 2008; IEC 61000-4-3: 2010; IEC 61000-4-8: 2009)

Warranty

This instrument is warranted to be free from defects in materials and workmanship (for a normal use of service) for a period of one year. Any instrument found defective within one year from the delivery date and returned to the factory with transportation charges prepaid, will be repaired, adjusted, or replaced at no charge to the original purchaser. This warranty doesn't cover expandable items such as batteries or fuses. If the defect has been caused by a misuse or abnormal operating conditions, the repair will be billed to the customer at a nominal cost.