QUATROS®

Tool strength. Human power.

CE

DO NOT THROW AWAY

USER MANUAL

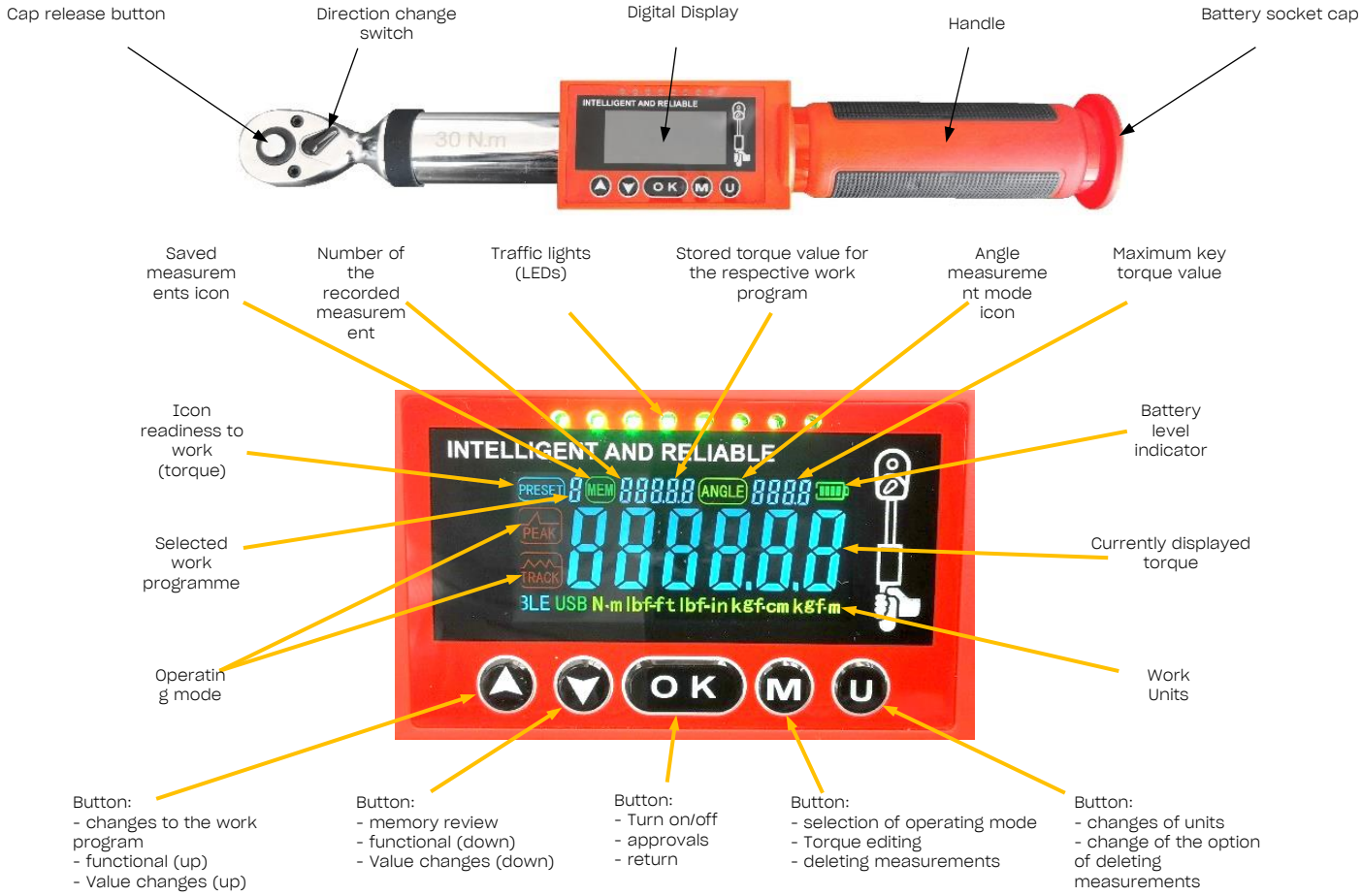
Torque wrench
Electronic
QS56 Series

26/02

PRODUCT DESCRIPTION

The electronic torque wrench with 72-tooth ratchet mechanism is designed for tightening connections with right or left threads. Powered by AAA batteries. It has the ability to change the operating units between the available ones: Nm, lbf-ft, lbf-in, kgf-cm and has a memory of 500 measurements. Each key is accompanied by a calibration certificate made in accordance with PN ISO 6789:2017 on a certified measuring instrument. Packed in a plastic cassette.

Specification	QS56030	QS56135	QS56220
Drive:	1/4"	1/2"	1/2"
Torque range:	1.5-30 Nm	6.8-135 Nm	11-220 Nm
Minimum torque adjustment value:	0.01 Nm	0.1 Nm	0.1 Nm
Torque accuracy 1% to the right in the range:	6-30 Nm	27-135 Nm	44-220 Nm
Torque accuracy 2% to the left in the range:	6-30 Nm	27-135 Nm	44-220 Nm
Angle Measurement Range:	50 - 1800	50 - 1800	50 - 1800
Angle Measurement Accuracy:	±2%	±2%	±2%
Length:	305mm	420mm	530mm



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SAFETY RULES

⚠ NOTE:
The product contains a batteries

Battery Type: AAA
Number of batteries: 3 pcs.
Type: Alkaline Battery
Voltage: 1.5V

CE

⚠ GENERAL AAA BATTERY SAFETY WARNINGS
- Use AAA batteries only in devices designed for this purpose, making sure that the polarity (+ and -) is correct.
- Never attempt to charge disposable (alkaline) batteries. This may result in leakage, fire or explosion.
- Do not disassemble, crush, puncture, or otherwise damage the battery. This can lead to chemical leakage or fire.
- Do not expose batteries to high temperatures (e.g. direct sunlight) or dispose of them in a fire.

LEAKAGE AND SHORT CIRCUIT WARNINGS
- Do not short-circuit the battery terminals (do not connect + and - with metal objects). This may result in heat generation, fire or explosion. Store batteries in their original packaging or containers, away from metal objects.
- If you notice a battery leak, remove it from the device immediately (using protective gloves). Avoid contact with any leaking substance that may be corrosive. In case of contact with skin or eyes, rinse immediately with plenty of water and consult a doctor.

WARNINGS FOR CHILDREN AND SWALLOWING
- Batteries, especially small AAA batteries, should be kept out of the reach of small children.
- Swallowing batteries is life-threatening. If swallowed, seek medical attention immediately and contact a poison center.

DEALING WITH USED BATTERIES
According to Regulation 2023/1542, batteries must be collected selectively. Improper disposal can harm the environment and health.
- Never dispose of used AAA batteries in a regular trash can. These batteries must be collected selectively.
- Return used batteries to designated collection points (shops, recycling points, containers in public buildings) or to a retailer.

USER MANUAL

Battery Assembly
1. Unscrew (right side) the battery socket cap located at the bottom of the handle.
2. Insert three AAA batteries, paying attention to the correct polarity.
3. Screw the battery socket cap back on.

Home screen display example

Turning the key on/off
- To turn on, press the [OK] button. The key is ready to go.
- To turn off, hold the [OK] button for about 3 seconds.
  If the key is left on, it will turn off automatically after about 3 minutes of inactivity.

Unit selection
The unit is selected using the [U] button when the home screen is displayed. Each time you press it, the device changes the unit to the next one.

Setting and saving torque/angle measurement values
1. While the home screen is displayed, press the [] button▲ to enter the program selection with the torque values or angle measurement values stored.
2. The flashing [PRESENT] icon means that the [▲] and [▼] buttons can be used to select one of 10 programs. After selecting the program with the appropriate torque or measured angle value, click the [OK] button and start working.
3. If no program meets the requirements, select one of them and click the [M] button, which will allow you to make changes to the currently selected one – the torque value saved for a given program will flash. Use the [▲] and [▼] buttons to adjust the torque value, then click the [OK] button to save the settings and start working. The [M] button can also be used to set the angle measurement values. Click the [M] button when the torque value stored for the program flashes. Then, use the [▲] and [▼] buttons to adjust the angle measurement value, then click [OK] to save the settings and get started.

IMPORTANT: To use the angle measurement function stored in the program, the torque value should be set to 0.0 Nm. Otherwise, when working on the program, the torque value will be measured first, and when it is reached, the angle measurement will only begin (unless this angle has already been reached during the measurement of the set torque).

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Selecting the operating mode

The device allows you to choose between two operating modes: the display of the maximum torque achieved (PEAK) or the continuous display of the torque (TRACK). The selection is made by clicking the [M] button while the home screen is displayed.

Using the Device

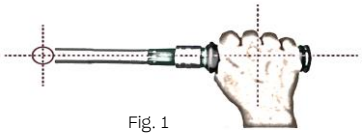


Fig. 1

Once you have set the parameters of the device, you can start working. Attach a cap to the wrench and proceed to the tightening operation. Hold the handle of the key (Fig. 1) and gradually (without making sudden movements or jerks) increase the pressure on the key. The force with which the wrench is pressed should be adjusted to the value of the set torque – the higher the torque set, the greater the force applied. The force should be increased steadily, steadily, while carefully observing the LCD display. When 80% of the set moment is reached, the sound and light signaling begins (1 signal for 1 second and the LEDs turn green). Short beeps and LEDs indicate that the torque is approaching the set value. The closer to the desired value, the frequency of the signaling increases, and the LEDs change their color (90% - 2 signals per 1 second and the LEDs turn yellow) to turn into a continuous signal when the desired value is reached, all LEDs turn red and start signaling with vibrations. At this point, stop tightening, as further tightening may damage the screw, thread, or component being tightened. A similar behavior of the squat occurs during the angle measurement mode.

Memory Recording and Review

Memory is saved using the [▼] button during operation. Clicking the button once saves the currently displayed torque value. To switch to the saved values, hold down the [] button for about 3 seconds while displaying the home screen ▼ – the [MEM] icon will appear at the top of the screen. The key allows you to record 500 measurements, so when viewing the results, it is possible to hold down the [▲] or [] button for a longer time (approximately 3 seconds) ▼to switch 10 forward/backward measurements after 10 measurements. To return to the home screen, press the [OK] button.

Erasing memory

NOTE: READ THE FOLLOWING GUIDELINES TO THE END AND UNDERSTAND SO THAT IF YOU WANT TO DELETE ONE MEASUREMENT, YOU DON'T ACCIDENTALLY DELETE ALL MEASUREMENTS.

DELETING ALL REGISTRATIONS:
To delete all recordings while the home screen is displayed, hold down the [▼] button for about 3 seconds. Press the [M] button – "ALL" will appear on the screen. To delete all saves, press [M] while "ALL" is displayed on the screen – the screen will display "SUCC" informing you that the deletion process has been successful. Additionally, after deleting all records, the key will return to save no. 1 and display "------". To return to the home screen, press the [OK] button.

DELETING A SINGLE RECORD:
To delete a single record while the home screen is displayed, hold down the [▼] button for about 3 seconds. Use the [▲] or [] buttons ▼to search for the record that will be deleted. Press the [M] button – "ALL" will appear on the screen, then press the [U] button – then "ONE" will appear on the screen. To delete a single record, press [M] while "ONE" is visible on the screen – the screen will display "SUCC" informing you that the deletion process has been successful. After deleting a single entry, e.g. entry no. 44, the value previously saved as the next entry, i.e. no. 45, will appear in its place. To return to the home screen, press the [OK] button.

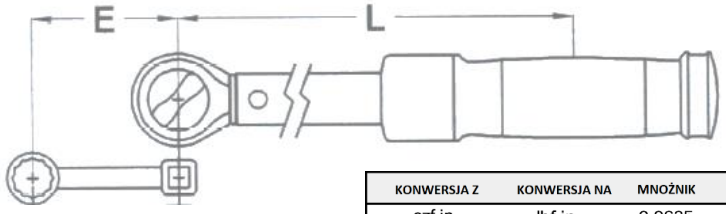
Important: If no measurements have been saved or all have been deleted, when attempting to erase, the key will display "nonE" to indicate that there are no records that can be deleted at the moment.

Low battery indication

In the event that the voltage drops below the permissible voltage, a low battery icon will be displayed and the key will turn off automatically after 5 signals.

NOTE: When using extensions , use the formula below to calculate what input torque value should be set on the torque wrench to obtain the required output torques to tighten a given component:

$$T1 = T2 \frac{L}{L+E}$$



where:
T1 – the value of the input torque (set on the key)
T2 – value of the output torque (required for tightening)
L – effective length of the wrench (measured according to the guidelines in the figure above)
E – effective length of the extension (measured according to the guidelines in the figure above)

For example:
The torque required to tighten the component is 100Nm. The length of the wrench measured according to the guidelines in the figure above is equal to 45 cm. The length of the extension measured according to the guidelines in the figure above is 5 cm.

$$T1 = 100Nm \frac{45cm}{45cm+5cm} = 100Nm * 0.9 = 90Nm$$

For the above situation, in order to obtain the required torque of 100Nm for tightening the component, the value of 90Nm should be set on the wrench scale.

KONWERSJA Z	KONWERSJA NA	MNOŻNIK
ozf-in	lbf-in	0.0625
lbf-in	ozf-in	16
lbf-in	kgf-cm	1.1519
lbf-in	lbf-ft	0.083333
lbf-in	kgf-m	0.011519
lbf-in	N-m	0.1130
lbf-in	dN-m	1.130
lbf-ft	N-m	1.356
lbf-ft	kgf-m	0.1382
lbf-ft	lbf-in	12
N-m	dN-m	10
N-m	kgf-cm	10.20
N-m	kgf-m	0.10197
N-m	lbf-in	8.8507
N-m	lbf-ft	0.73756
dN-m	lbf-in	0.885
dN-m	N-m	0.100
kgf-cm	lbf-in	0.8681
kgf-cm	N-m	0.09807
kgf-m	lbf-ft	7.233
kgf-m	N-m	9.807

Remarks

- The QS56 series wrenches are used to tighten connections with right or left threads.
- Do not make sudden movements or jerks when tightening.
- Do not overload the wrench by exceeding the currently set torque.
- Reading accuracy is guaranteed from 20% to 100% of the maximum range.
- The wrench must not be used to unscrew screws or as a ratchet.
- The key must be protected from falling and mechanical damage.
- Do not expose the wrench to high temperatures, high humidity, or direct sunlight.
- Do not clean the key with petrol, solvent or corrosive cleaning agents. Do not immerse the wrench in any cleaning fluid.
- Keep the key away from dust, oil, and other debris.
- If the key is not used for a long time, remove the batteries.
- Each QS56 series wrench is calibrated according to PN ISO 6789:2017 and has a torque accuracy of ±2%.
- It is recommended to check the wrench at least once a year or every 5000 cycles.

WARRANTY CONDITIONS

1. TECHSAM warrants the proper operation of the product for a period of 12 months from the date of purchase.
2. The warranty includes free removal of defects and factory defects revealed during the warranty period.
3. The warranty does not cover mechanical damage or damage caused by improper use of the product.
4. The warranty expires if repairs or alterations are found by unauthorized persons.
5. The condition for considering the warranty is the presentation of the warranty card together with the complained product at the service point or at the point of sale.
6. The warranty is valid only with the seller's stamp and the date of sale.
7. Warranty and post-warranty service is provided by the importer.

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Date of sale .....

Seller's signature and seal .....

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Tool strength. Human power.

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Lublin, 23.12.2025

DECLARATION OF CONFORMITY

PW TECHSAM WOCH SP. J.
Al. Warszawska 131
20-824 Lublin

We hereby declare that:

Digital Torque Wrench with Angle Measurement
QUATROS QS56030, QS56135, QS56220

Fulfils requirements of following standards:
EN IEC 55014-1:2021
EN IEC 55014-2:2021

Is identical to product which is subject to EC type examination by:
Global United Technology Services Co., Ltd.
No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,
Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102
tel. +86 (0) 755 2779 8480
fax +86 (0) 755 2779 8960
www.gtstest.com

Certificate no. GTS2024070429EV1

Test Report no.: GTS2024070429E01

In case of unauthorized modifications to the product this declaration becomes invalid.

Person authorized to compile the technical file:

Marcin Puderecki
(Name)

.....
(signature)