

Garant**Electronic torque wrench / rotational angle wrench, maximum torque: 200N·m****Order data**

Order number	655013 200
GTIN	4062406578121
Item class	61D

Description**Version:**

- **Display:** Large sharp contrast illuminated 2.8 inch TFT display with double scale with viewing angle stability. With battery display and memory display. Torque and rotational angle both displayed at the same time.
- **Display:** Peak and Track function modes.
- **Modes:** Displaying torque, triggering torque, triggering rotational angle, triggering rotational angle with rotational angle monitoring, triggering rotational angle with torque monitoring. Up to 100 screw tightening profiles can be programmed. Recurrent screw tightening profiles can be summarised into a procedure (up to 10 procedures each with up to 10 screw tightening profiles). Screw tightening profiles and procedures can be programmed directly on the wrench.
- **Memory capacity:** 1000 measurement values with timestamp (incl. date and time).
- **Data output:** Available via USB-C. The data can be exported as a .csv file.
- **Password protection:** available as protection against unauthorised access to the menu (master password) and for verifying screw-tightening cases and procedures. In addition, you can set that reworking a screw connection that has been performed incorrectly requires input of a password.
- **Warning signal outputs** are haptic (vibration), visual (change of colour at the display, visible through 360° in any direction due to the LED ring with "traffic light function") and acoustic (buzzer, beep sound). The pre-warning point can be configured individually. Haptic and acoustic warning signals can be disabled if desired.
- **Easy input of reference dimensions:** For tools with a different pitch setting simply input the new pitch. No laborious calculations with formulae.
- **Protection class IP40**

- **The 2-component handle of the torque / rotational angle wrench ensures specially good ergonomics and high torque transmission.**
- **Resistant to oils, grease, fuel, brake fluid and Skydrol.**
- **Languages: German, English, Spanish, Italian, French.**
- **Factory settings: The wrench can be reset to the factory settings.**
- **Display of the software version with serial number, load cycle counter and calibration date.**
- **Calibration reminder: after number of load cycles.**
- **Units of measure: Nm, lbfft, lbt-in.**

Standard:

Geprüft nach DIN EN ISO 6789.

Accuracy:

Torque: Clockwise $\pm 2\%$, anticlockwise $\pm 3\%$.

Rotation angle: $\pm 1^\circ$ for the measurement range up to 100° , $\pm 1\%$ for the measurement range 100° and beyond.

Cutting dataa:**Legend for drawing and formula:**

l_1 = Lever length without plug-in head

l_2 = Adjusted reference dimension on the torque wrench

l_3 = Lever length including factory calibration reference dimension

l_4 = Reference dimension of the plug-in head

L = Total length of the tool

T_1 = Torque to be set

T_2 = Specified torque

Supplied with:

USB-C data cable, plug-in ratchet (reversible) with ejector, 1 commercially available Li-ion battery type 18650 3.6V / 3400 mAh (can be charged directly within the tool via the USB-C port). Supplied in a sturdy plastic case.

Supplied with:

USB-C data cable, plug-in ratchet (reversible) with ejector, 1 commercially available Li-ion battery type 18650 3.6V / 3400 mAh (can be charged directly within the tool via the USB-C port). Supplied in a sturdy plastic case.

Note:

Suitable additional batteries can be found under No. 081574 size 3500. Charger for 4 batteries available as options under: 081590 size 4ULTRA.

Technical description

Overall length L	530 mm
Test certificate	Manufacturer's test certificate
Lever length including factory calibration reference dimension [l_3]	456 mm

Measuring accuracy rotational angle	±1 %
Standard	DIN EN ISO 6789
Release signalling	haptisk
Release signalling	haptisk
Release signalling	acoustic
Weight	1460 g
Resolution	0.1 Nm
Calibration	O5
Calibration	O3
Connection format	for plug-in heads (rectangular socket)
Battery capacity	3.4 Ah
Torque range	354 - 1770 lbf·in
Type of rechargeable battery	Lithium-ion
Adjusted reference dimension on the torque wrench [L ₂]	34 mm
Interface	USB interface
Data can be recorded	yes
Display diagonal	2.8 in
Number of rechargeable batteries contained	1
Measurement process	Torque
Measurement process	Rotation angle
Power supply	Rechargeable battery-powered
Torque range	40 - 200 Nm
Direction of tightening	For right and left-hand tightening
Trigger principle	Vibration motor
Display	digital
Adjustable trigger value	adjustable
Lever length without plug-in head [L ₁]	422 mm
Square drive	1/2 in
Setting the trigger value	digital, adjustable

Nominal voltage	3.6 V
Battery type	18650
Torque measuring accuracy	±2 %
Torque measuring accuracy	±2 %
Reversible reading	lbf·in
Reversible reading	Nm
Reversible reading	lbf·ft
maximum torque	200 Nm
Exchangeable tool	Plug-in head
Feedback	displaying
Socket for plug-in head	14×18 mm
Measurement technology	electronic
Torque range	29.5 - 147.5 lbf·ft
Measuring accuracy rotational angle	±1 degrees
Angular resolution	0.1 degrees
Type of product	Torque Wrench

Services

DAkkS calibration Torque wrench clockwise / anti-clockwise maximum torque 1000/2 N·m	020040 1000/2
Calibration Rotation angle Type W	020070 W
Calibration Torque wrench clockwise / anti-clockwise maximum torque 400/2 N·m	020030 400/2

Accessories

Electronic torque wrench / rotational angle wrench HCT maximum torque 200 N·m	655010 200
---	------------