

Garant**Electronic torque wrench / rotational angle wrench, maximum torque: 100N·m****Order data**

Order number	655013 100
GTIN	4062406578114
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

Test certificate	Manufacturer's test certificate
Data can be recorded	yes
Lever length without plug-in head [l_1]	325.1 mm
Torque range	14.8 - 73.8 lbfft

Direction of tightening	For right and left-hand tightening
Interface	USB interface
Trigger principle	Vibration motor
Square drive	1/2 in
Setting the trigger value	digital, adjustable
Number of rechargeable batteries contained	1
Torque range	177 - 885 lbfin
Torque range	20 - 100 Nm
Resolution	0.1 Nm
Weight	1052 g
Display	digital
Measuring accuracy rotational angle	±1 %
Battery capacity	3.4 Ah
Battery type	18650
Reversible reading	lbfft
Reversible reading	Nm
Reversible reading	lbfin
Socket for plug-in head	9×12 mm
Torque measuring accuracy	±2 %
Torque measuring accuracy	±2 %
Display diagonal	2.8 in
Measuring accuracy rotational angle	±1 degrees
Exchangeable tool	Plug-in head
Feedback	displaying
Lever length including factory calibration reference dimension [L ₃]	353.1 mm
Measurement technology	electronic
Nominal voltage	3.6 V
Power supply	Rechargeable battery-powered
Calibration	O3

Calibration	O5
Connection format	for plug-in heads (rectangular socket)
Type of rechargeable battery	Lithium-ion
Angular resolution	0.1 degrees
Measurement process	Rotation angle
Measurement process	Torque
Adjusted reference dimension on the torque wrench [l ₂]	28 mm
maximum torque	100 Nm
Release signalling	acoustic
Release signalling	haptisk
Release signalling	haptisk
Adjustable trigger value	adjustable
Standard	DIN EN ISO 6789
Overall length L	423.4 mm
Type of product	Torque Wrench

Services

DAkkS calibrationTorque wrench clockwise / anti-clockwise maximum torque 1000/2 N·m	020040 1000/2
CalibrationRotation angle Type W	020070 W
CalibrationTorque wrench clockwise / anti-clockwise maximum torque 400/2 N·m	020030 400/2

Accessories

Electronic torque wrench / rotational angle wrenchHCT maximum torque 100 N·m	655010 100
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