



## Electronic torque wrench / rotational angle wrench without plug-in head, maximum torque: 60N·m



### Order data

Order number	655235 60
GTIN	4018754222810
Item class	63A

### Description

#### Version:

Highly precise electronic torque / rotational angle wrench for screw tightening and checking of screw fastenings. Clear OLED display with colour screen and extremely simple menu navigation. Sturdy wrench with "Direct mode" for quick general-purpose use. Up to 200 screw tightening cases can be programmed, which can be incorporated in procedural plans. 4 measurement modes: torque and angle of rotation. Process reliability results achieved by torque with angular monitoring or rotational angle with torque monitoring. Can be programmed by a PC; password protection for security against tampering. Rotary angle measurement can be programmed easily, no reference arm required. Peak and Track function modes.

The wrench can be used in trigger mode. When the set torque or rotational angle is reached the wrench triggers with audible and tactile signals like a conventional mechanical torque wrench.

**Units of measure:** Nm, lbfft, lbfin.

- **Reversible ratchet**
- **Easy input of pitch settings: For tools with a different pitch setting simply input the new pitch. No laborious calculations with formulae.**
- **QuickRelease: Secure engagement and quick change of plug-in heads.**
- **Data output: The USB interface allows the saved data to be read out and analysed via PC.**
- **Easy to use: All functions can be selected using the arrow keys. Clear and simple menu navigation.**
- **Warning signals: – Acoustic (buzzer) – Visual via 3 LEDs and a colour screen**
- **2-component handle: Resistant to oils, greases, fuels, and Skydrol.**

MANOSKOP® 714 electromechanical rotation angle torque wrench combines the best of two worlds. Users benefit from a precise, electronic measurement, but can also feel and hear the well-known "clicking" of mechanical torque wrenches.

#### Standard:

Geprüft nach DIN EN ISO 6789.

#### 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:**

With sturdy plastic case (size 400 in a sturdy sheet metal case) and 4 batteries (1.5 V micro / AAA / LR3), USB data cable, and SENSOMASTER 4 software for transmitting the measured data.

**Note:**

Suitable Bluetooth module available via eShop (No. 52110220).

**Technical description**

Resolution	0.1 Nm
Weight	810 g
Socket for plug-in head	9×12 mm
maximum torque	60 Nm
Torque measuring accuracy	±2 %
Exchangeable tool	Plug-in head
Torque range	6 - 60 Nm
Torque range	4.5 - 45 lbfft
Article no of the battery / rechargeable battery fitted	081557 LR3
Number of batteries contained	4
Torque range	54 - 540 lbfin
Series	MANOSKOP® 714
Adjusted reference dimension on the torque wrench [ $l_2$ ]	17.5 mm
Connection format	for plug-in heads (rectangular socket)
Overall length L	393 mm
Reversible reading	Nm
Reversible reading	lbfin
Reversible reading	lbfft

Display	digital
Lever length without plug-in head [L <sub>1</sub> ]	355 mm
Measurement process	Torque
Measurement process	Rotation angle
Setting the trigger value	digital, adjustable
Trigger principle	mechanical short-travel release
Adjustable trigger value	adjustable
Lever length including factory calibration reference dimension [L <sub>3</sub> ]	372.5 mm
Standard	DIN EN ISO 6789
Feedback	visning
Feedback	udløsning
Calibration	O3
Calibration	O5
Calibration	O1
Direction of tightening	For right- and left-hand tightening
Test certificate	Manufacturer's test certificate
Interface	USB interface
Measuring accuracy rotational angle	±1 %
Data can be recorded	yes
Measurement technology	electronic
Release signalling	optisk
Release signalling	akustisk
Release signalling	haptisk
Power supply	Battery-powered
Type of product	Torque Wrench

## Services

CalibrationTorque wrench maximum torque 400 N·m	020010 400
	020020 1000

DAkKS calibrationTorque wrench maximum torque 1000 N-m	
CalibrationRotation angle Type W	020070 W

## Accessories

Alkaline-manganese batteries International size LR3	081551 LR3
Plug-in ratchet reversible Type-Square drive 1-1/2 in	657600 1-1/2
Plug-in ratchet reversiblewith QuickRelease ejector Type-Square drive 1-1/4 in	657590 1-1/4
Plug-in ratchet reversible Type-Square drive 1-1/4 in	657600 1-1/4
Plug-in ratchet reversiblewith QuickRelease ejector Type-Square drive 1-3/8 in	657590 1-3/8
Plug-in ratchet reversible Type-Square drive 1-3/8 in	657600 1-3/8
Plug-in ratchet reversiblewith QuickRelease ejector Type-Square drive 1-1/2 in	657590 1-1/2
Alkaline-manganese batteries International size LR3	081561 LR3