

Quality Made in Germany

# QUANTEC MCS<sup>®</sup>

The electronic torque / rotation angle hand tool.  
Our compact screwing lab.

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**GWK**



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ToolRent<sup>®</sup>  
Simply rent tools



## Technical features

- Measuring range 3-1000 Nm
- Torque controller / Rotation angle controller / Yield strength controller
- Audit functions: Prevail torque / Loosen-tighten
- Onward torque measurement for process capability testing (PFU) according to VDI/VDE 2645
- Wireless data transfer WLAN
- Measuring channel for prestress force measurement
- Compatible with the analysis software Ceus and QS-Torque
- Intuitive graphical user interface
- Barcode scanner

## Technical data

- Measuring accuracy torque  
± 1% between (10 - 100)% of the nominal range
- Measurement accuracy rotation angle \*  
0.1° resolution of display
- Microprocessor, measured value memory  
32 bit RISC architecture internal memory 2 GB
- TFT display  
320 x 240 pixels, 16-bit colour analogue touch panel
- Power supply Li-ion, 2600 mAh with overload protection  
for approx. 8 hours continuous operation
- Additional measuring channel  
16 bit resolution 3 VDC supply for external sensors  
(nominal value 2mV/V). Connection from piezo sensors  
possible using voltage distributor

\* in acc. w. GWK approval certificate QuanTec MCS 2014



## Dimensions QuanTec MCS<sup>®</sup>



quanTec MCS <sup>*</sup> Dimensions without tool insert	30/30-L*	60/60-L*	100/100-L*	200	300	400	600	800	1000
Measuring range [ N·m ]	3 - 30	6 - 60	10 - 100	20 - 200	30 - 300	40 - 400	60 - 600	80 - 800	100-1000
Length [ mm ]	405 / 440*	415 / 450*	415 / 450*	545	825	825	1080	1440	1455
Width [ mm ]	79	79	79	79	79	79	79	79	79
Height [ mm ]	40	40	40	40	40	40	40	40	40
Weight [ kg ]	ca. 0,9	ca. 1,1	ca. 1,1	ca. 1,4	ca. 2,0	ca. 2,0	ca. 2,6	ca. 3,0	ca. 3,3
Square mount [ mm ]	9 · 12	9 · 12	9 · 12	14 · 18	14 · 18	14 · 18	14 · 18	14 · 18	22 · 28
Drive [ mm ]	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	1"
Reversible ratchet inside micrometre [ mm ]	17,5	17,5	17,5	25	25	25	30	34	153

\* Housing for barcode scanner

## Overview

1	Interchangeable square drive system for insert tools
2	Fixed point-less rotation angle measurement
3	Powerful and future-proof 32 bit - RISC core
4	3.2" TFT display 320 x 240 pixels, 16 bit colour with touch function
5	Measurement input for prestress force sensors (16 bit resolution)
6	360° - LED-Ring * for visualisation of tightening curve
7	Replacement battery, Li-ion technology
8	Vibrations alarm
9	robuste Alu Titan Konstruktion
10	Wireless data transfer via WLAN *
11	2D scanner * can be operated via the device keyboard can be used for all common 1D / 2D barcodes
12	± 60° lockable

\* optionally available



# QuanLab Pro<sup>®</sup>

for parameterization, data acquisition, graphic evaluation and archiving of final readings and tightening curves

## Accessories PC- software

- Parameterisation of the Quantec tools
- Creation of complex screwing sequences
- Reading out and archiving the screwing data
- Convenient database functions
- Statistical evaluation of the screwing results (PDF, Excel)» Extensive evaluation options for process and tool inspections

