SAUTER

Digital torquemeter SAUTER DB













Convenient way to test the torque of tools

Features

- 11 Particularly suitable for testing torque wrenches, electric hand screwdrivers and cordless screwdrivers
- 2 Torque pick-up system for dynamic testing of electric screwdrivers (from SAUTER DB 0.5-4 to DB 50-2)
- · Metal housing for continuous use in tough environmental conditions
- · Capacity display: A bar lights up to show how much of the measuring range is still available.
- · LCD graphics display with backlight
- · Rubber feet with anti-slip feature at SAUTER DB 0.5-4 up to DB 10-3
- 3 Stable mounting plate for solid fixation at SAUTER DB 20-3 up to DB 500-2
- · USB and RS-232 data interfaces standard
- · Scope of delivery: Torque pick-up, sturdy carry case, mounting plate (models with $[Max] \ge 20 \text{ Nm}$

- Internal data memory saves up to 500 measurements. The memory contents can be transferred to the PC using optional software
- Peak hold function to capture the peak value or Track-Funktion for continuous display of measurement
- · Can be used in both directions of rotation
- · Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible and visual signal
- · AUTO-OFF function

Technical data

- · Backlit LCD graphics display
- · Units can be selected: Nm, lbf-in, kgf-cm, kgf-m, ft-lbf
- Measuring precision: ± 0,5 % of [Max]
- · Measuring frequency: 1000 Hz
- Usable measuring range: 5-100 % of [Max]
- · Overload protection: 150 % of [Max]
- · Rechargeable battery pack integrated, standard, operating time up to 18 h without backlight, charging time approx. 14 h
- Overall dimensions W×D×H 200×100×50 mm
- · Net weight approx. 3 kg

Accessories

- · Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel®, SAUTER AFI-1.0
- · Force-time data transfer software with graphic display of the measurement process, SAUTER AFH FAST
- · USB/PC connection cable, standard, SAUTER FL-A01
- RS-232/PC connection cable SAUTER FL-A04

STANDARD



























Option Model Measuring range Readout Tool fitting Factory calibration certificate [Max] [d] SAUTER mm/Inch Nm Nm **KERN** DB 0.5-4 0,5 0,0001 20 mm & 3/8" 961-120 DB 1-4 20 mm & 3/8" 961-120 1 0.0002 20 mm & 3/8" DB 5-3 0.001 961-120 5 DB 10-3 0,002 20 mm & 3/8" 961-120 10 20 0,005 961-120 DB 20-3 20 mm & 3/8" DB 50-2 50 20 mm & 3/8" 961-120 0.01 DB 100-2 100 3/8" 961-120 0.02 DB 200-2 200 0,05 1/2" 961-120 961-120 DB 500-2 500 0.05 3/4"

GNW Instrumentation www.gnw.co.uk

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SAUTER CATALOGUE 2021



Pictograms



Adjusting program (CAL):

For quick setting of the instrument's accuracy. External adjusting weight required



WLAN data interface:

To transfer data from the balance/measuring instrument to a printer, PC or other peripherals



Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram.



Calibration block:

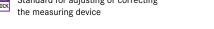
Peak hold function:

measuring process

Standard for adjusting or correcting

Capturing a peak value within a

Continuous capture and display





0<u>~</u>o

SWITCH

Data interface Infrared:

To transfer data from the measuring instrument to a printer, PC or other peripheral devices



Resets the display to "0"



Control outputs (optocoupler, digital I/O):

To connect relays, signal lamps, valves, etc.



Battery operation:

Ready for battery operation. The battery type is specified for each device



Analogue interface:

To connect a suitable peripheral device for analogue processing of the measurements



Rechargeable battery pack:

Rechargeable set



SCAN

Push and Pull:

of measurements

Scan mode:

The measuring device can capture



STATISTIC

Analog output:

Statistics:

PC Software:

For output of an electrical signal depending on the load (e.g. voltage 0 V - 10 V or current 4 mA - 20 mA)

Using the saved values, the device

calculates statistical data, such as

To transfer the measurement data

from the device to a PC

average value, standard deviation etc.



Mains adapter:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available



Power supply:

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request



Motorised drive: The mechanical movement is carried



out by a electric motor



Motorised drive:

The mechanical movement is carried out by a synchronous motor (stepper)



Fast-Move:

The total length of travel can be covered by a single lever movement



Verification possible:

The time required for verification is specified in the pictogram



DAkkS calibration possible: The time required for DAkkS calibration is



shown in days in the pictogram



Factory calibration:

The time required for factory calibration is specified in the pictogram



Package shipment: The time required for internal shipping



preparations is shown in days in the pictogram



Pallet shipment:

The time required for internal shipping preparations is shown in days in the pictogram

tension and compression forces



MEMORY

RS 232

88

*

Length measurement:

Captures the geometric dimensions of a test object or the movement during a test process



Internal memory:

Profibus:

Profinet:

Data interface RS-232:

Increases the measuring accuracy of a device within a defined measuring range

To save measurements in the device memory

Bidirectional, for connection of printer and PC

For transmitting data, e.g. between scales,

measuring cells, controllers and peripheral

fast, fault-tolerant data transmission. Less

Enables efficient data exchange between

and a control unit (controller). Especially advantageous when exchanging complex

measured values, device, diagnostic and

through shorter commissioning times and

process information. Savings potential

To connect the measuring instrument

to a printer, PC or other peripheral devices

To transfer data from the balance/measuring

device integration possible

Bluetooth* data interface:

Data interface USB:

decentralised peripheral devices (balances,

measuring cells, measuring instruments etc.)

susceptible to magnetic interference.

devices over long distances. Suitable for safe,



Printer:

A printer can be connected to the device to print out the measurement data



Network interface:

For connecting the scale/measuring instrument to an Ethernet network



KERN Communication Protocol (KCP):

It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems



GLP/ISO record keeping:

Of measurement data with date, time and serial number. Only with SAUTER printers



Measuring units:

Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details



Measuring with tolerance range (limit-setting function):

Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

Your KERN specialist dealer:



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