Digital torquemeter SAUTER DB

PREMIUM







Convenient way to test the torque of tools

Features

- Particularly suitable for testing torque wrenches, electric hand screwdrivers and cordless screwdrivers
- 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
- I 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] ≥ 20 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]
- 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

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	PEAK	MEMORY	RS 232	USB	STATISTIC	UNIT	TOL	ACCU	230 V	1 DAY	SOFTWARE	+4 DAYS

Model	Measuring range	Readout	Tool fitting	Option
			Č	Factory calibration certificate
	[Max]	[d]		
SAUTER	Nm	Nm	mm/Inch	KERN
DB 0.5-4	0,5	0,0001	20 mm & 3/8"	961-120
DB 1-4	1	0,0002	20 mm & 3/8"	961-120
DB 5-3	5	0,001	20 mm & 3/8"	961-120
DB 10-3	10	0,002	20 mm & 3/8"	961-120
DB 20-3	20	0,005	20 mm & 3/8"	961-120
DB 50-2	50	0,01	20 mm & 3/8"	961-120
DB 100-2	100	0,02	3/8"	961-120
DB 200-2	200	0,05	1/2"	961-120
DB 500-2	500	0,05	3/4"	961-120

SAUTER CATALOGUE 2022

Pictograms



Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required



Calibration block:

Standard for adjusting or correcting the measuring device



Peak hold function: Capturing a peak value within a

measuring process



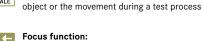
Scan mode: Continuous capture and display of measurements



The measuring device can capture tension and compression forces



Length measurement: Captures the geometric dimensions of a test



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



FOCUS

Internal memory:

To save measurements in the device memory



Data interface RS-232:

Bidirectional, for connection of printer and PC



Profibus:

For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference.



Profinet:

Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible



Data interface USB:

To connect the measuring instrument to a printer, PC or other peripheral devices



Bluetooth* data interface:

Your KERN specialist dealer:

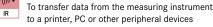
To transfer data from the balance/measuring instrument to a printer, PC or other peripherals



WLAN data interface:

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

Data interface Infrared: • (((() •



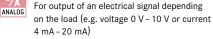


Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



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

Analog output:



Statistics:

Im Using the saved values, the device calculates STATISTIC statistical data, such as average value, standard deviation etc.



PC Software: To transfer the measurement data from the device to a PC



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: GLP

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

Measuring units:

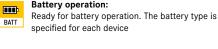
 ${\mathcal C}$ Weighing units can be switched to e.g. non-metric. UNIT Please refer to website for more details



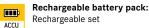
Measuring with tolerance range (limit-setting function):

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

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ZERO:



Rechargeable set

Resets the display to "0"

<u> </u>
230 V

666

IP

+04

ZERO

Plug-in power supply:

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

SAUTER

Protection against dust and water splashes IPxx:

The type of protection is shown in the

pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013



Integrated power supply unit:

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



The mechanical movement is carried ELECTRO out by a electric motor

Motorised drive:

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



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 +3 DAYS

DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram



Factory calibration:



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

+4 DAYS specified in the pictogram

The time required for factory calibration is