PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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SAUTER DB 1-4

Convenient way to test the torque of tools

ENGLISH



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APPLICATION EXAMPLE







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FEATURES

- Particularly suitable for testing torque wrenches, electric hand screwdrivers and cordless screwdrivers
- Screw joint simulator for dynamic testing of electric screwdrivers
- Metal housing for durable use in harsh 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
- Data interface USB and RS-232 included
- 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 function 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
- Scope of delivery: Torque pick-up, sturdy carry case

TECHNICAL DATA

- Backlit LCD graphics display
- Selectable measuring units: Nm, kgf/cm, kgf/m, in/lbs, ft/lbs
- Measuring precision: ± 0,5% of [Max]
- Usable measuring range: 5 – 100 % of [Max]
- Overload protection: 120% of [Max]
- Rechargeable battery pack integrated, as standard, operating time up to 18 h without backlight, charging time approx. 14 h
- Overall dimensions 180×110×56 mm
- Net weight approx. 2,2 kg

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MAIN SCOPE OF APPLICATIONS

- Workshops
- Test laboratories
- Toolmaking and mould production
- Maintenance and servicing

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Measuring range [Max]	Readout [d]	Supported torque pickups
DB 0.5-4	0,5 Nm	0,1 mNm	• 20 mm • 3/8 "
DB 1-4	1 Nm	0,2 mNm	• 20 mm • 3/8 "
DB 5-3	5 Nm	0,001 Nm	• 20 mm • 3/8 "
DB 10-3	10 Nm	0,002 Nm	• 20 mm • 3/8 "
DB 20-3	20 Nm	0,005 Nm	• 20 mm

Model	Measuring range [Max]	Readout [d]	Supported torque pickups
			• 3/8 "
DB 50-2	50 Nm	0,01 Nm	• 20 mm • 3/8 "
DB 100-2	100 Nm	0,02 Nm	• 3/8 "
DB 200-2	200 Nm	0,05 Nm	• 1/2 "
DB 500-2	500 Nm	0,1 Nm	• 3/4 "

ACCESSORIES

Model	Description
FL-A01	USB cable FL-A01
FL-A04	Cable FL-A04
YKT-01	Needle printer YKT-01

SOFTWARE

Model	Description
AFH FAST	Data transfer software for force-time-measurements, AFH FAST
Sauter Readout	Data transfer software Sauter Readout

SERVICES

Model	Description
961-120	Factory calibration certificate 961-120
970-108	Warranty extension (+2 years) 970-108

KERN Pictogram Overview

	Peak hold function: capturing a peak value within a measuring process
	Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.
	ZERO: Reset the display to 0
	Units can be switched to e.g. non-metric units
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Rechargeable battery pack: Rechargeable set
	Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	Package shipment by courier service: The duration of internal product provision is one day
	PC Software: to transfer the measurements from the device to a PC
	Factory calibration (ISO): Factory calibration takes 4 working days

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