

Digital torquemeter SAUTER DA











Comfortable testing of screw tops, e.g. bottles, jars

Features

- 11 Optimised for torque testing of bottles, jars and other packaging with screw tops with a minimum diameter of 15 mm and a maximum diameter of 160 mm, in the food industry and pharmaceutical industry, as well as in the manufacturing of cosmetics such as, for example, lipsticks, etc.
- 2 Quick pin system: The four bottle mounts (holders) are pushed in, instead of being screwed in, to save time. This allows you to reconfigure quickly for other bottle sizes
- · Metal housing for continuous use in tough environmental conditions
- 3 Capacity display: A bar lights up to show how much of the measuring range is still available.
- 3 LCD graphics display with backlight

- · Rubber feet with anti-slip feature
- · Scope of delivery: four bottle mounts with rubber coat, sturdy carrying case
- Internal data memory saves up to 500 measurements. The memory contents can be transferred to the PC using optional software
- 4 USB and RS-232 data interfaces standard
- · 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

Technical data

- · Selectable units: 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 250×160×100 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





















Model	Measuring range	Readout	Diameter test object	Option Factory calibration certificate
	[Max]	[d]	-	
SAUTER	Nm	Nm	mm	KERN
DA 1-4	1	0,0002	15-160	961-120
DA 5-3	5	0,001	15-160	961-120
DA 10-3	10	0,002	15-160	961-120

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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 the measuring device

Capturing a peak value within a



Data interface Infrared:

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



Resets the display to "0"



SWITCH

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



STATISTIC

Analogue interface:

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



Rechargeable battery pack:

Rechargeable set



The measuring device can capture tension and compression forces



Analog output:

PC Software:

Printer:

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

to print out the measurement data

average value, standard deviation etc.



-

230 V

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



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Pallet shipment:

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

Scan mode: Continuous capture and display of measurements



SCAN

Length measurement: Captures the geometric dimensions of a test



MEMORY

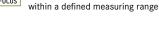
RS 232

88

*

object or the movement during a test process

Focus function: Increases the measuring accuracy of a device



Profibus:

Profinet:

Data interface RS-232:

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

instrument to a printer, PC or other peripherals

device integration possible

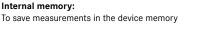
Data interface USB:

decentralised peripheral devices (balances,

measuring cells, measuring instruments etc.)

susceptible to magnetic interference.

devices over long distances. Suitable for safe,





Network interface:

from the device to a PC

For connecting the scale/measuring instrument to an Ethernet network



KERN Communication Protocol (KCP):

A printer can be connected to the device

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:

Bluetooth* data interface:

GNW Instrumentation Tel: 01704 536010 www.gnw.co.uk Email: sales@gnw.co.uk

