







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

#### Features

- Il Ideal for torque testing of bottles, jars and other packaging with screw tops
- 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
- Capacity display: A bar lights up to show how much of the measuring range is still available.
- **IS 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 included
- Peak hold function to capture the peak value or Track function for continuous display of measurement
- Can be used in both directions of rotation
- Limit value function, programming of Max./Min., with output of acoustic and optical signal. Ideal mode for efficient and accurate testing of standard parts
- AUTO-OFF function

#### **Technical data**

- Units can be selected:
- Nm, lbf-in, kgf-cm, kgf-m, ft-lbf
- 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<sup>®</sup>, SAUTER AFI-1.0
- Force-time data transfer software for graphical representation on the PC and data transfer to Microsoft Excel<sup>®</sup>, SAUTER AFH FAST

STANDARD	 	OPTION
PEAK MEMORY RS 232 USB	ACCU 230 V 1 DAY	SOFTWARE ISO +4 DAYS

Model	Measuring range	Readout	Diameter	Option
			test object	Factory calibration certificate
	[Max]	[d]	-	
SAUTER	Nm	Nm	mm	KERN
DA 1-4	1	0,0002	10-165	961-120
DA 5-3	5	0,001	10-165	961-120
DA 10-3	10	0,002	10-165	961-120

Datasheet\_DA\_V1

# SAUTER Pictograms:



Adjusting program (CAL): For quick setting of the balance'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.

continuous capture and display



of measurements.

Scan mode:



Push and Pull: the measuring device can capture tension and compression forces.



#### Length measurement: captures the geometric dimensions of

a test object or the movement during a test process.



### Focus function:

increases the measuring accuracy of a device within a defined measuring range.



Internal memory: to save measurements in the device memory.



Data interface RS-232 bidirectional, for connection of printer and PC.



Data interface USB:

To connect the balance to a printer, PC or other peripheral devices.



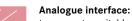
#### Data interface Infrared: To transfer data from the balance to a

printer, PC or other peripheral devices.



## 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.



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



PC Software: to transfer the measurements from the device to a PC.



a printer can be connected to the PRINT device to print out the measurements.



GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.



#### Measuring units:

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

> Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.



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TOL

7FRO. Resets the display to "0".



## Battery operation: Ready for battery operation.

The battery type is specified for each device.



Rechargeable battery pack: rechargeable set.



#### Mains adapter:

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

The mechanical movement is carried out



### Power supply:



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



### Motorised drive: by a electric motor.

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TEPPER	

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.



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.



VARRANTY

#### Pallet shipment:

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



The warranty period is shown in the pictogram.

# Your SAUTER specialist dealer:

