# Digital torquemeter SAUTER DA









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

## Features

- **1 Ideal for torque testing** of bottles, jars and other packaging with screw tops
- **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 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®, SAUTER AFI-1.0
- **Force-time data transfer software** for graphical representation on the PC and data transfer to Microsoft Excel®, SAUTER AFH FAST

| STANDARD | | | | | | | | | | OPTION | |
|----------|--|--|--|--|--|--|--|--|--|--------|--|
| PEAK | MEMORY | RS 232 | USB | STATISTIC | UNIT | TOL | ACCU | 230 V | 1 DAY | 2 YEARS WARRANTY | SOFTWARE | ISO +4 DAYS |

| Model | Measuring range | Readout | Diameter test object | | Option Factory calibration certificate | |
|-------|-----------------|---------|---------------------|--|----------------------------------------|--|
| SAUTER | [Max] Nm | [d] 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 | |

# 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.

**Scan mode:**
continuous capture and display
of measurements.

**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.

**Analogue interface:**
to connect a suitable peripheral device for
analogue processing of the measurements.

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

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

**Printer:**
a printer can be connected to the
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
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.

**ZERO:**
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.

**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.

**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.

**Warranty:**
The warranty period is shown
in the pictogram.

# Your SAUTER specialist dealer: