

# Compact force measuring device

#### Features

- Turnable display with backlight
- **Peak-Hold function** to capture peaks (measurement result will be "frozen" for a short time) or **Track function** mode for a continuous measurement indication (period of time approx. 10 s)
- **Metal housing** for durable usage in harsh environmental conditions
- **Capacity display:** A bar lights up to show how much of the measuring range is still available
- Limit value function, programming of Max./Min., in pull and push direction, with output of acoustic and optical signal. Ideal mode for efficient and accurate testing of standard parts
- **Safety:** If loads exceed 110 % of the measuring range, the device will give clear acoustic and visual signals
- Internal memory for up to 1000 measurements

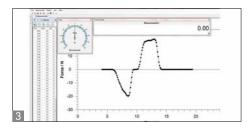
- Data interface RS-232 (only for connection to the printer)
- Selectable: AUTO-OFF function or permanent operation
- Z Standard attachments: as shown below, extension rod: 90 mm
- Selectable measuring units: N, kg, oz, lb
- Is Standard attachments: as shown below
- Can be mounted on all SAUTER test stands (with adapter plate)

### Technical data

- Precision: 0,2 % of [Max]
- Internal measuring frequency: 1000 Hz
- Overload protection: 150 % of [Max]
- Overall dimensions W×D×H 145×73×34 mm
  Thread: M6
- Net weight approx. 940 g
- Permissible ambient temperature -10 °C/40 °C







### Accessories

- El Force-time data transfer software for graphical representation on the PC and data transfer to Microsoft Excel<sup>®</sup>, SAUTER AFH FAST
- Force-displacement data transfer software with graphic display of the measurement process, SAUTER AFH FD
- 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
- Standard attachments, SAUTER AC 43
- Matrix needle printer KERN YKN-01N
- Thermal printer, KERN YKB-01N
  Statistics thermal printer,
- KERN YKS-01 • Label printer, KERN YKE-01
- Lapel printer, KERN YKE-01
- Further accessory see www.sauter.eu and page 24 et seqq.

	STANDARD		OPTION		
	PEAK PUSH/PULL MEMORY	RS 232 USB CLP	UNIT TOL ZERO	Image: ACCU         Image: Constraint of the second se	
Model		Measuring range	Readout		Option DAkkS calibra

		3. p. 00							
Model	Measuring range	Readout		Option DAkkS calibration certificate					
				Tensile force		Compressive force		Tensile/Compressive force	
	[Max]	[d]		DAkkS		DAkkS		DAkkS	
SAUTER	N	N		KERN		KERN		KERN	
FC 10	10	0,01		963-161		963-261		963-361	
FC 50	50	0,01		963-161		963-261		963-361	
FC 100	100	0,1		963-161		963-261		963-361	
FC 500	500	0,1		963-161		963-261		963-361	
FC 1K	1000	1		963-162		963-262		963-362	

# 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.



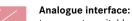
#### Data interface Infrared: To transfer data from the balance to a

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:

