MEASURING TECHNOLOGY & TEST SERVICE 2023

LENGTH MEASUREMENT



Digital length measuring device SAUTER LB



Distance measurement directly in machines or sites with RS-232 interface

100

Features

STANDARD

- Digital sliding calliper with a superior precision even at high operation speed
- Easy mounting to machine tools, conveyer, test stands e.g. SAUTER TVO-N, TVM-N etc.
- Zeroing, pre-added and pre-reduced length as well as switching the unit can be done manually
- Data interface RS-232 as standard
- Selectable measuring units: mm, inch

Technical data

- Overall dimensions W×D×H 350×42×30 mm
- Battery operation, batteries standard (3V CR2032)

Accessories

- RS-232/PC connection cable, SAUTER LB-A01
- Mounting the length measuring device LB onto a SAUTER test stand at the factory, SAUTER LB-A02

RS 232 ZERO BAT				
Model	Measuring range	Readout	Direction of measurement	Option Factory calibration certificate
	[Max]	[d]		
SAUTER	mm	mm		KERN
LB 200-2	200	0,01	vertical	961-150
LB 300-2	300	0,01	vertical	961-150
LB 500-2	500	0,01	vertical	-

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SAUTER PICTOGRAMS

required



Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight



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 SCAN 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



Profibus:

For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference.



Profinet:

Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible



Data interface USB:

To connect the measuring instrument to a printer, PC or other peripheral devices



Bluetooth* data interface:

To transfer data from the balance/ measuring instrument to a printer, PC or other peripherals

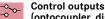


WLAN data interface:

To transfer data from the balance/ measuring instrument to a printer, PC or other peripherals





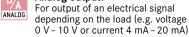


(optocoupler, digital I/O): SWITCH To connect relays, signal lamps, valves, etc.



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

Analog output:



Statistics: how

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



PC Software: To transfer the measurement data from the device to a PC

Printer: 님

A printer can be connected to the device to print out the measurement data



Network interface: For connecting the scale/measuring LAN instrument to an Ethernet network



KERN Communication Protocol (KCP): 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. UNIT non-metric. 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



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Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013

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ZERO Battery operation: Ready for battery operation. The battery type is specified for each device BATT Rechargeable battery pack: Rechargeable set ACCU

ZERO:

Resets the display to "0"

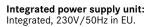
→0+



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Plug-in power supply:

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



230 V 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

Fast-Move:

2 The total length of travel can be covered by a single lever movement

out by a synchronous motor (stepper)



Verification possible:

Models with type approval for construction of verifiable systems



DAkkS calibration possible:

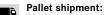
The time required for DAkkS calibration is shown in days in the pictogram

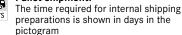


Factory calibration:

The time required for factory calibration is specified in the pictogram

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





Package shipment: 1 DAY