

Load cells SAUTER CT Q1 · CT P1 · CT P2



Fig. shows optional accessory load corner 1 SAUTER CE RQ35903



Fig. shows optional accessory load corner 2 SAUTER CE P4022

CT Q1

Shear beam made from stainless steel

STANDARD



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Note: EX version on request

Model	Nominal load	
KERN	kg	
CT 300-3Q1	300	
CT 500-3Q1	500	
CT 750-3Q1	750	
CT 1000-3Q1	1000	
CT 1500-3Q1	1500	
CT 2000-3Q1	2000	
CT 3000-3Q1	3000	
CT 5000-3Q1	5000	
CT 7500-3Q1	7500	
CT 10000-3Q1	10000	

CT P1 · CT P2

Shear beam made from stainless steel

STANDARD



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Note: EX version, 6-wire connection and accuracy class C4 or C5 on request
- **CT P2:** Delivery with calibrated characteristic value, if several cells are ordered

Model	Nominal load	
KERN	kg	
CT 500-3P1	500	
CT 1000-3P1	1000	
CT 1500-3P1	1500	
CT 2500-3P1	2500	
CT 3000-3P1	3000	
CT 5000-3P1	5000	
CT 10000-3P1	10000	
CT 500-3P2	500	
CT 1000-3P2	1000	
CT 3000-3P2	3000	
CT 5000-3P2	5000	
CT 10000-3P2	10000	

Accessories CT Q1:

- Base plate, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35911
- Base plate, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35912
- Base plate, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35919
- Bearing, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35909
- Bearing, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35910
- Bearing, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35918
- Load corner, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35902
- 1 Load corner, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903

Accessories CT P1:

- Load corner, steel, rustproof, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210
- 2 Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025
- Adjustable foot, steel, rustproof, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012
- Adjustable foot, steel, rustproof, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018
- Adjustable foot, steel, rustproof, suitable for CT 10000-3P1, SAUTER CE P2024
- Spacer plate for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2 and CT 1500-3P1, SAUTER CE P3012
- Spacer plate for CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1 and CT 5000-3P2 SAUTER CE P3015
- Spacer plate for CT 10000-3P1 and CT 10000-3P2 SAUTER CE P30110



Tip: Further details and technical data sheet as well as extensive accessories see internet

Pictograms

Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	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	Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.
Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required	GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	Stainless steel: The balance is protected against corrosion
Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone	GLP/ISO log: With weight, date and time. Only with KERN printers	Suspended weighing: Load support with hook on the underside of the balance
Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	Piece counting: Reference quantities selectable. Display can be switched from piece to weight	Battery operation: Ready for battery operation. The battery type is specified for each device
Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	GLP/ISO log: With weight, date and time. Only with KERN printers	Rechargeable battery pack: Rechargeable set
Data interface RS-232: To connect the balance to a printer, PC or network	Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
USB data interface: To connect the balance to a printer, PC or other peripherals	Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals	Totalising level A: The weights of similar items can be added together and the total can be printed out	Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals	Percentage determination: Determining the deviation in % from the target value (100 %)	Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details	Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	Weighing with tolerance range: (Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model	Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
Interface for second balance: For direct connection of a second balance	Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	Verification possible: The time required for verification is specified in the pictogram
Network interface: For connecting the scale to an Ethernet network		DAKkS calibration possible: The time required for DAKkS calibration is shown in days in the pictogram
Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module		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

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KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: