

Electronic Analytical Balances, KERN

① Electronic analytical balances KERN ABS-N / ABJ-NM

Well made and compact in size, this line represents an economical solution for entering the world of high precision analysis balances. Thanks to intuitive user guidance, different menu settings such as metric and non-metric units, interface adaptation, print commands, etc. can be easily entered. In order to uniquely identify the balance, e.g. when printing out the balance results over the network, a 4-digit, freely selectable identification number can be assigned. The large, high contrast LCD is also easy to read in poor light conditions. In addition, all models are equipped with a capacity display that indicates the weighing range still available via an ascending bar on the display. Three large sliding glass doors provide easy access to the material to be weighed. All ABJ-NM line models have a convenient, built-in automatic calibration mechanism. Both lines are equipped with an RS-232C data interface for connecting to a PC or printer, a piece count and percent determination function (display of deviation of reference weight in percent) and printout functionality for GLP protocols (in connection with the Kern YKS-01 printer), all in a solid, robust metal housing. Optionally available: statistic thermal printer, standard thermal printer, density determination set, calibration certificate for models ABJ-NM, DKD-calibration certificate.

Model	Increment mg	Weighing range g	Calibration value mg	Minimum load mg	Order No.
ABS 80-4N	0.1	82	–	–	10 58 34080
ABS 120-4N	0.1	120	–	–	10 58 34120
ABS 220-4N	0.1	220	–	–	10 58 34220
ABS 320-4N	0.1	320	–	–	10 58 34321
ABJ 80-4NM ¹⁾	0.1	82	1	10	10 58 35080
ABJ 120-4NM ¹⁾	0.1	120	1	10	10 58 35120
ABJ 220-4NM ¹⁾	0.1	220	1	10	10 58 35220
ABJ 320-4NM ¹⁾	0.1	320	1	10	10 58 35320

¹⁾ Can be verified: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Statistics thermal printer KERN YKS-01, as well as standard thermal printer KERN YKB-01N see page XXX.

② Electronic analytical balances KERN ABT

The KERN premium model with innovative single cell balancing system.

The fully-automatic production of the balancing cell from one aluminum block ensures stable temperature behaviour, short settling times, high mechanical robustness. Thanks to intuitive operation, different menu settings such as interface adjustment, print commands, metric and non-metric units, etc. can be entered easily. GLP-conform production of individual recipes is especially easy with the combined tare/print function. Here, the individual mixture components of the recipe are automatically numbered and printed out with balancing value and number output out via the PC. In order to be able to uniquely identify the balance according to GLP-directives, e.g. when printing in the network, the balance can be assigned a freely selectable ident-number. Besides manual data transfer, balance values can also be automatically transferred to the printer or PC after each balancing stop. The big, well structured and high-contrast LCD-display offers favourable readability even under inconvenient light conditions. Furthermore, all modes have a capacity display, which displays the remaining balancing space by means of an ascending illuminated tape. 3 big sliding glass doors offer a good view and comfortable access to the balancing goods. The half-micro models of this series are perfectly suitable for calibrating pipettes. All models of this series have a comfortable, internal adjustment automatic, which adjusts the balance either time-controlled or temperature-dependent. All balances of this series have a data interface RS 232 C to be connected to a PC or printer, counting function and percentage determination function. All models include a power supply unit and a protective cover. Optionally available: standard thermal printer, set for determining the density, calibration certificate, DKD-calibration certificate.

Model	Increment mg	Weighing range g	Calibration value mg	Minimum load mg	Order No.
ABT 120-4M ¹⁾	0.1	120	1	10	10 58 31204
ABT 220-4M ¹⁾	0.1	220	1	10	10 58 32204
ABT 320-4M ¹⁾	0.1	320	1	10	10 58 33204
ABT 100-5M ¹⁾	0.01	101	1	1	10 58 35100
ABT 120-5DM ¹⁾	0.01 / 0.1	42 / 120	1	1	10 58 31205
ABT 220-5DM ¹⁾	0.01 / 0.1	82 / 220	1	1	10 58 32205

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③ Electronic analytical balances KERN AET

- 2 infrared sensors: to initiate functions such as TARE, zeroing, printing, starting or aborting adjustment, calling up database or menu and much more, without having to touch the balance - just give it a wave!
- 3 rapid assign keys: for frequently recurring applications, functions, settings or memories
- Difference calculation: Weighing a sample before and after a machining process and automatic output of the difference value
- High level of connectivity: 1 x Ethernet, 2 x RS-232, 2 x USB, 1 x additional display, digital I/O interface (4 in / 4 out), e. g. for data exchange or connection of barcode or RFID scanners for quick recall of stored items
- Individual user settings can be stored: user name and number, password, authorizations, menu language, user profiles
- Additional guest mode for users who are not logged in
- Intuitive operation, increases efficiency and saves costs: Easy capture of item data at the PC, recall of items on the balance using the connected barcode or RFID scanner, output of weighing data using the large or second display or control outputs, data transfer to the PC, printer or alibi memory.
- Statistical function for statistical analysis of series of measurements. Graphic display of measurements can be used by the operator to check and evaluate the results
- Intuitive pipette calibration in accordance with ISO 8655 to guarantee pipette volumes and to minimise the risks in the daily work with your pipettes
- Electronic level indicator continuously checks the position of the balance, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation
- Individual print formats: up to 16 printouts which can be edited easily at the PC
- Convenient recipe-weighing: complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If one recipe ingredient is more than it should be, then the practical back calculation function automatically calculates the new target weights of the other ingredients
- A 1 GB database with optional software can be filled in easily at the PC. Particularly beneficial when counting a large number of individual items, as part of a stocktake, for checkweighing, recording recipes etc.
- Data exchange via USB to download software updates, export weighing results, export/import databases, balance settings, data exchange between individual balances and much more
- Innovative touchscreen: Large backlit and touch-sensitive LCD screen with digit height 21 mm, screen diagonal 5.7" (approx. 145 mm), W×H 115×86 mm.

Model	Increment mg	Platform mm	Order No.
AET 100-5M ¹⁾	0.01	110	10 58 35102
AET 200-4NM ¹⁾	0.1	220	10 58 34200
AET 200-5DM ¹⁾	0.01/0.1	82/220	10 58 35200
AET 500-4	0.1	510	10 58 34500

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Official Calibration

Article	Order No.
Official calibration	10 58 30101

