

Analytical balances KERN ABS-N · ABJ-NM · ACS · ACJ



**KERN ACS/ACJ** with standard data interface  
RS-232 and USB data interface

**KERN®**

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]

#### Features

- KERN ABJ-NM, ACJ: Automatic internal adjustment in the case of a change in temperature  $\geq 2\text{ °C}$  or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ABS-N, ACS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *test weights*
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Protective working cover included with delivery

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### Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel,  $\varnothing$  91 mm
- Weighing space W×D×H 174×162×227 mm
- Overall dimensions (incl. draught shield) W×D×H 213×333×338 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 10 °C/30 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN ACS-A02S05
- **1** Set for density determination of liquids and solids with density  $\leq/\geq 1$ , the density is indicated directly on the display, KERN YDB-03
- **2** Ioniser to neutralise electrostatic charge, KERN YBI-01A
- KERN ABS-N/ABJ-NM: Data interface RS-232, interface cable included, approx. 1,5 m, KERN ACS-A01
- **3** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)



Single-cell advanced technology:

- **Fully automatic manufactured weighing cell from one piece of material**
- **Stable temperature behaviour**
- **Short stabilisation time:** steady weight values within approx. 3 s under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

| STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |             |                    |              |                 |           | OPTION                                                                                                 |         | FACTORY                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|--------------------|--------------|-----------------|-----------|--------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------|--|
| <div><div><div>CAL INT</div><div>ABJ-NM/<br/>ACJ</div></div><div><div>CAL EXT</div><div>ABS-N/<br/>ACS</div></div><div><div>RS 232</div><div>ACS/ACJ</div></div><div><div>USB</div><div>ACS/ACJ</div></div><div><div>GLP</div><div>PRINTER</div></div><div><div></div><div>PCS</div></div><div><div></div><div>RECIPE</div></div><div><div>0%</div><div>PERCENT</div></div><div><div></div><div>UNIT</div></div><div><div></div><div>TOL</div></div><div><div>B</div><div>MULTI</div></div><div><div></div><div>SC TECH</div></div><div><div></div><div>1 DAY</div></div></div> |                            |             |                    |              |                 |           | <div><div>RS 232</div><div>ABS-N/<br/>ABJ-NM</div></div> <div><div>DAkks</div><div>+3 DAYS</div></div> |         | <div><div>M</div><div>ABS-N/<br/>ABJ-NM<br/>ACJ</div><div>+3 DAYS</div></div> |  |
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Weighing capacity<br>[Max] | Readability | Verification value | Minimal load | Reproducibility | Linearity | Verification                                                                                           | Option  |                                                                               |  |
| KERN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | g                          | [d]<br>mg   | [e]<br>mg          | [Min]<br>mg  | mg              | mg        | MID<br>KERN                                                                                            | DAkks   | Calibr. Certificate                                                           |  |
| ABS 80-4N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 82                         | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABS 120-4N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABS 220-4N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 220                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABS 320-4N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 320                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ACS 80-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 82                         | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ACS 100-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 120                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ACS 200-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 220                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ACS 300-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 320                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABJ 80-4NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 82                         | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABJ 120-4NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 120                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABJ 220-4NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 220                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| ABJ 320-4NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 320                        | 0,1         | -                  | -            | 0,2             | ± 0,3     | -                                                                                                      | 963-101 |                                                                               |  |
| Note: 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |             |                    |              |                 |           |                                                                                                        |         |                                                                               |  |
| ACJ 80-4M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 82                         | 0,1         | 1                  | 10           | 0,2             | ± 0,3     | 965-201                                                                                                | 963-101 |                                                                               |  |
| ACJ 100-4M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120                        | 0,1         | 1                  | 10           | 0,2             | ± 0,3     | 965-201                                                                                                | 963-101 |                                                                               |  |
| ACJ 200-4M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 220                        | 0,1         | 1                  | 10           | 0,2             | ± 0,3     | 965-201                                                                                                | 963-101 |                                                                               |  |
| ACJ 300-4M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 320                        | 0,1         | 1                  | 10           | 0,2             | ± 0,3     | 965-201                                                                                                | 963-101 |                                                                               |  |