Labor

Standard

Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motor-driven).

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

Piece counting: Reference quantities selectable. Display can be switched from piece to weight.

Data interface: The type of interface is shown by the pictogram. For a definition, see page 88.

GLP/ISO record keeping of weighing data with date, time and ident.-no. Only with printers from KERN, see page 88.

Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.

Percentage determination: Displays the deviation from the reference weight (100%) in % instead of grams.

Weighing units: can be switched to e.g. non-metric units at the touch of a key. See balance model.

Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing / sorting.

Suspended weighing: load support with hook on the underside of the balance.

Animal weighing program: strong vibrations are filtered out.

Mains adapter: 230 V/50Hz in standard version for Germany. On request GB, AUS or USA version.

Option (additonal price)

Rechargeable battery pack: rechargeable set.

Spray and dust protection: The type of protection is shown by the pictogram. For a definition see the glossary, page 96.

PRS•PRJ

Precision balance

DIRECT SCALE
www.direct-scale.com

KERN PRS•PRJ
Precision balance

Premium laboratory class – always up to date via the internet

Order Hotline:
Go to back page of catalogue

STANDARD

CAL INT only PRJ
CAL EXT only PRS
PCS
PC RS 232
GLP only PRJ
REZ
%
UNIT only PRS
TOL
U
230
FACTORY OPTION
AKU
IP 65

Price reduction

Stainless steel weighing plate
A 135 x 135 mm
B 170 x 170 mm, illustrated
C 200 x 200 mm

Delivery 1 day
3 Years warranty

OPTION
only PRJ
M Verification +7 days
DKD Certificate +4 days

Bright fluorescent display with high contrast, digit height 15 mm

Capacity display a bar graph shows the current available weighing range

User guidance Step by step on the display

Main function keys for transmitting deposited individual functions in the display. E.g. 4 reference quantities when piece counting or 4 secondary units

Threshold value programming for check weighing. In connection with **KERN PR-A18** signal lamp (see page 29) ideal for dosing or sorting

Glass draft shield with removable metal cover, standard for all models with readout **d** = 0.001g, weighing space WxDxH 155x155x55 mm

Metal housing robust and sturdy

Weighing sum memory adds single weighing results

Software for KERN PRS·PRJ models. Update via the Internet.

Configuration menu
To define the basic functions
- Language: German, English or French
- Automatic internal adjusting (only KERN PRJ) can be programmed to any time of the day. Subsequent automatic adjusting every 24 hours or after a temperature change of > 2°C.
- Interface setting as baud rate, parity, etc.
- Printing commands and formats
- Date and time
- Density determination of liquids and solids with direct display of the density. See also "Interesting facts about density determination" on page 29.

Application menu
to define the balance to the user requirements
- Counting with freely selectable reference quantity, automatic reference optimization
- Call 4 secondary units, e.g. mg, ct etc.
- Animal weighing function

Individual user configuration
For a personal or user specific definition. Can be called up independently of the existing programme configuration of the balance as a closed unit.

Update via the Internet
Future software updates, additional applications and other things can be loaded on to the balance through a PC with an internet link

KERN – Your DKD-Calibration Partner

issues DKD calibration certificates for balances and test weights in its own accredited laboratories. It is internationally valid.

KERN is a manufacturer of test weights in the international classes of accuracy **E1, E2, F1, F2, M1, M2, M3, from 1 mg up to 2000 kg**

DKD = German Calibration Service

Standard

Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motor-driven).

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

Piece counting: Reference quantities selectable. Display can be switched from piece to weight.

Data interface: The type of interface is shown by the pictogram. For a definition, see page 88.

GLP/ISO record keeping of weighing data with date, time and ident.-no. Only with printers from KERN, see page 88.

Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.

Percentage determination: Displays the deviation from the reference weight (100%) in % instead of grams.

Weighing units: can be switched to e.g. non-metric units at the touch of a key. See balance model.

Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing / sorting.

Suspended weighing: load support with hook on the underside of the balance.

Animal weighing program: strong vibrations are filtered out.

Mains adapter: 230 V/50Hz in standard version for Germany. On request GB, AUS or USA version.

Option (Mehrpreis)

Rechargeable battery pack: rechargeable set.

Spray and dust protection: The type of protection is shown by the pictogram. For a definition see the glossary, page 96.

Order Hotline:
Go to back page of catalogue

Accessories

KERN PRS • PRJ
Precision balance

Protective working cover over key pad and housing, standard. Can be reordered, **KERN PR-A25**

Protection IP 65 (only with rechargeable battery pack) for **PRS/PRJ 4200-2 N (NM)** and all models with readout **d** = 0.1 g.

Please indicate at purchase: desired model with IP65 add-on e.g. **PRJ 8200-1 IP65 NM**

Rechargeable battery pack internal, operating time approx. 4 h, charging time approx. 12 h, **KERN PR-A22**

Data interfaces: Second RS 232 C, **KERN PR-A11**
Analogue, -10 V ... +10 V **KERN PR-A13**
20 mA current loop, **KERN PR-A12**

Statistics printer **KERN YKT-01**
Standard printer **KERN YKB-01**
For all printers see page 88

Second display, tiltable, can be screwed to the back of the balance. Stand inclusive, stand height 240 mm, **KERN PR-A10**

Second display for the table, can be tilted, cable length approx. 1.5 m, **KERN PR-A09**

Signal lamp yellow/green/red, includes mains and interface cables, **KERN PR-A18**

Relay box includes interface cables, **KERN PR-A31**

Set for density determination of liquids and solids. Only suitable for models with readout **d** = 0.001g, consisting of:
- Board
- Beaker
- Thermometer
- Plummet
- Sifting pan

KERN PR-A02

Hook for suspended weighing **KERN PR-A04**

Draft shield with glass sliding doors left, right and on top. Weighing space WxDxH 170x195x160 mm. Refittable on all models with readout **d** ≤ 0.01g, **KERN PR-A01**

Interesting facts about the determination of density
(Hydrostatic weighing)

Density determination: (specific gravity) of liquids and solid matter, in accordance with the buoyancy method, is known for a high degree of accuracy.

Density determination of liquids: by means of measuring the buoyancy with a glass plummet, 10 cm³, resolution 0.0001 g/cm³.

Density determination of solid matter: the density is the ratio of weight [g]: Volume [cm³]. The weight is derived by weighing the sample in air. The volume is determined from the buoyancy [g] of a sample, which is submerged in a liquid. The density [g/cm³] of this liquid is known (Archimedes' principle).

Applications:
- Materials analysis
- Cavities in solid objects
- Density of porous materials
- Pre-packaged goods check, whenever the merchandise is sold according to volume [cm³]. This volume [cm³] is calculated from the weight [g]: density [g/cm³].

Model KERN	Weighing range Max g	Read-out d g	Verific. value e g	Repro-ducibility g	Linearity g	Weighing plate		OPTIONS alternative Verification 950-xxx	Certificate 963-xxx	Balance test weight	Certificate 962-xxx
PRS 320-3N	320	0,001	–	0,001	± 0,0015	A		–	-127	190C	-3A2
PRS 620-3N	620	0,001	–	0,001	± 0,0015	A		–	-127	1709	-339
PRS 4200-2N	4200	0,01	–	0,01	± 0,015	B		–	-127	1912	-3A2
PRS 6200-2N	6200	0,01	–	0,01	± 0,015	B		–	-127	1713	-343
PRS 8200-1N	8200	0,1	–	0,1	± 0,1	C		–	-127	297E	-3A2
PRS 12200-1N	12200	0,1	–	0,1	± 0,1	C		–	-128	2774	-444
	Verifiable							1 Factory verification			
PRJ 320-3NM	360	0,001	0,01	0,001	± 0,0015	A		1 -116	-127	–	–
PRJ 620-3NM	620	0,001	0,01	0,001	± 0,0015	A		1 -116	-127	–	–
PRJ 1200-3N*	1220	0,001	–	0,001	± 0,002	A		–	-127	–	–
PRJ 4200-2NM	4200	0,01	0,1	0,01	± 0,015	B		1 -116	-127	–	–
PRJ 6200-2NM	6200	0,01	0,1	0,01	± 0,015	B		1 -117	-128	–	–
PRJ 8200-1NM	8200	0,1	1	0,1	± 0,1	C		1 -117	-128	–	–
PRJ 10200-1NM	10200	0,1	1	0,1	± 0,1	C		1 -117	-128	–	–

Overall dimensions WxDxH 210x340x85 mm.
Net weight approx. 5 kg. * Non verifiable.

Permitted environmental temperature +10 ... +30 °C.
UNITS Further weighing units: see the internet.

KERN – Your DKD-Calibration Partner

issues DKD calibration certificates for balances and test weights in its own accredited laboratories. It is internationally valid.

KERN is a manufacturer of test weights in the international classes of accuracy **E1, E2, F1, F2, M1, M2, M3, from 1 mg up to 2000 kg**

DKD = German Calibration Service