

### KERN & Sohn GmbH

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# Operating instruction Price computing scale

## **KERN RPB-N**

Version 1.4 06/2009 GB





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# Operating instruction **Price computing scale**

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#### 1 Technical data

KERN	RPB 3K1NM	RPB 6K2NM
Readability (d)	1g	2 g
Weighing range (max)	3 kg	6 kg
Minimum load	20 g	40 g
Verification value	1 g	2 g
Verification class	III	III
Reproducibility	1 g	2 g
Linearity	± 2 g	± 4 g
Stabilization time	2 sec.	2 sec.
Recommended adjusting weight (not supplied)	3 kg (M2)	6 kg (M2)
Warm up time (operating temperature)	10 min	
Net weight (kg)	4,3	
Dimensions of the housing (B x D x H)	315 x 355 x 110	
Weighing plate, stainless steel	225 x 275 mm	
Weighing unit	€/kg; €/g	
Permissible ambient condition	-10° C to 40° C	
Humidity of air	15% - 85% (not condensing)	
Voltage	230 V (AC)	
Battery	Operating time ca. 70 hrs. / loading time ca. 12 hrs.	
Data interface	RS 232C	

KERN	RPB 15K5NM	RPB 30K10NM	RPB 3K1HNM
Readability (d)	5 g	10 g	1g
Weighing range (max)	15 kg	30 kg	3 kg
Minimum load	100 g	200 g	20 g
Verification value	5 g	10 g	1 g
Verification class	III	III	III
Reproducibility	5 g	10 g	1 g
Linearity	± 10 g	± 20 g	± 2 g
Stabilization time	2 sec.	2 sec.	2 sec.
Recommended adjusting weight (not supplied)	15 kg (M2)	30 kg (M2)	3 kg (M2)
Net weight (kg)	4,3	4,3	4,7
Dimensions of the housing (B x D x H)	315 x 355 x 110	315 x 355 x 110	315 x 355 x 110 without tripod 315 x 355 x 540 with tripod
Weighing plate, stainless steel	225 x 275 mm		
Warm up time (operating temperature)	10 min		
Weighing unit	€/kg; €/g		
Permissible ambient condition	-10° C to 40° C		
Humidity of air	15% - 85% (not condensing)		
Voltage	230 V		
Battery	Operating time ca. 70 hrs. / loading time ca. 12 hrs.		
Data interface	RS 232C		

KERN	RPB 6K2HNM	RPB 15K5HNM	RPB 30K10HM
Readability (d)	2 g	5 g	10 g
Weighing range (max)	6 kg	15 kg	30 kg
Minimum load	40 g	100 g	200 g
Verification value	2 g	5 g	10 g
Verification class	III	III	III
Reproducibility	2 g	5 g	10 g
Linearity	± 4 g	± 10 g	± 20 g
Stabilization time	2 sec.	2 sec.	2 sec.
Recommended adjusting weight (not supplied)	6 kg (M2)	15 kg (M2)	30 kg (M2)
Warm up time (operating temperature)	10 min		
Net weight (kg)	4,7		
Dimensions of the housing (B x D x H)	315 x 355 x 110 without tripod 315 x 355 x 540 with tripod		
Weighing plate, stainless steel	225 x 275 mm		
Weighing unit	€/kg; €/g		
Permissible ambient condition	-10° C to 40° C		
Humidity of air	15% - 85% (not condensing)		
Voltage	230 V		
Battery	Operating time ca. 70 hrs. / loading time ca. 12 hrs.		
Data interface	RS 232C		

#### 2 Declaration of conformity



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### Konformitätserklärung

Declaration of conformity for apparatus with CE mark
Konformitätserklärung für Geräte mit CE-Zeichen
Déclaration de conformité pour appareils portant la marque CE
Declaración de conformidad para aparatos con marca CE
Dichiarazione di conformitá per apparecchi contrassegnati con la marcatura CE

**English** We hereby declare that the product to which this declaration refers conforms with the fol-

lowing standards.

Date: 10.01.2007

Deutsch Wir erklären hiermit, daß das Produkt, auf das sich diese Erklärung bezieht, mit den nach-

stehenden Normen übereinstimmt.

Français Nous déclarons avec cela responsabilité que le produit, auquel se rapporte la présente

déclaration, est conforme aux normes citées ci-après.

Español Manifestamos en la presente que el producto al que se refiere esta declaración est"a de

acuerdo con las normas siguientes

Italiano Dichiariamo con ciò che il prodotto al quale la presente dichiarazione si riferisce è confor-

me alle norme di seguito citate.

### Electronic Scale: KERN RPB..NM

Mark applied	EU Directive	Standards
CE	89/336/EEC EMC	EN 61326
		EN 60950
	73/23/EEC Low Voltage	EN 61010

Signature:

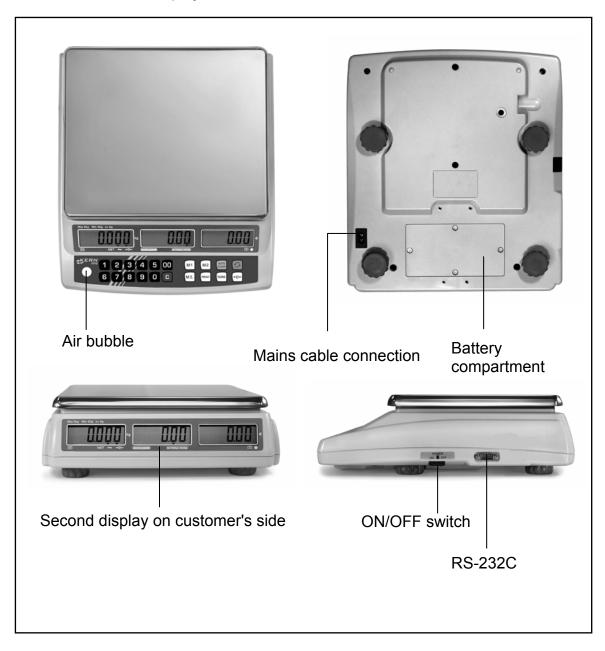
Gottl. KERN & Sohn GmbH

Management

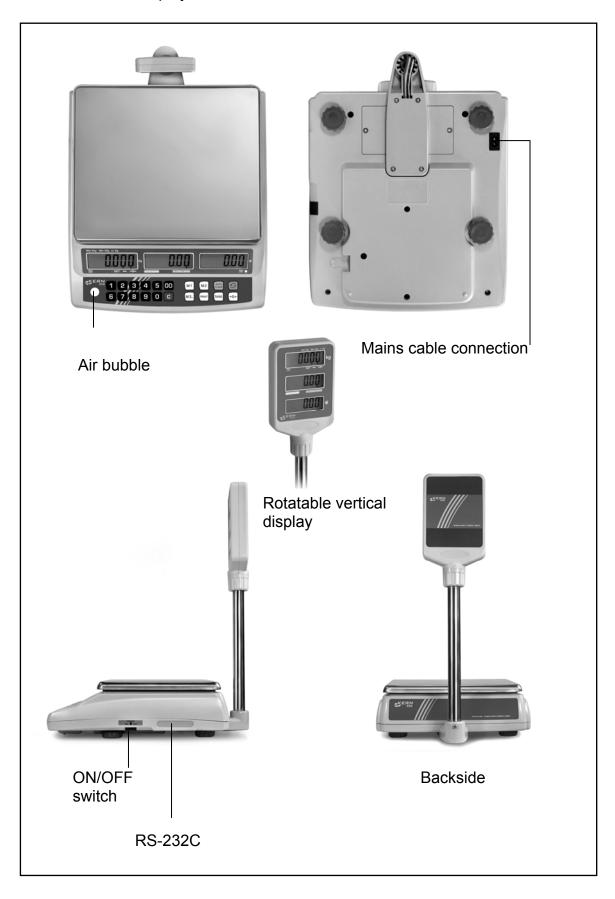
Gottl. KERN & Sohn GmbH, Ziegelei 1, D-72336 Balingen, Tel. +49-[0]7433/9933-0,Fax +49-[0]7433/9933-149

### 3 Appliance overview

Models without vertical display:

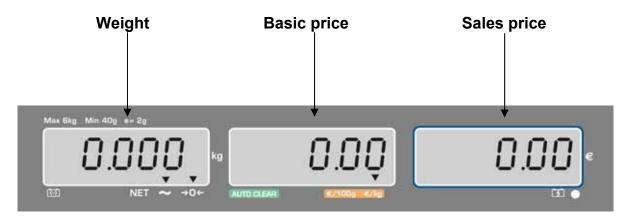


### Models with vertical display:



#### 3.1 Overview of display

#### **Operator display balance:**



#### Vertical display for models with tripod:



#### 3.1.1 Display weight

Here, the weight of your goods is displayed.

#### The arrows above the symbols show:

(-)	Battery very low
NET	Net weight
~	Stability display
→0←	Zeroing display

#### 3.1.2 Display basic price

Here, enter your basic price in €/kg or €/100 g via keyboard. The basic price can be switched to €/kg or €/100 g.

#### The arrows above the symbols show:

AUTO CLEAR	Set basic price is deleted automatically when balance is unloaded
€/100 g	Saved basic price in €/100 g
€/kg	Saved basic price in €/kg

#### 3.1.3 Display sales price

Here the sales price is displayed in Euro [€].

### 3.2 Keyboard overview



Choice	Function	
1	Number keys, enter basic price /PLU	
C	Delete key	
M1 M2	Saving and calling up the two most frequently used PLU values	
МЗ	Saving and calling up the other PLU values	
TARE	<ul><li>Taring key</li><li>Save</li></ul>	
→0←	<ul><li>Zeroing key</li><li>Back to weighing mode</li></ul>	
AUTO	Set basic price is deleted automatically when balance is unloaded	
9	Switch-over key €/kg or €/100 g	
PRINT	<ul> <li>Output of the weight to an external appliance</li> <li>Parameter selection</li> </ul>	

#### 4 Basic Information (General)

#### 4.1 Proper use

The balance you purchased is intended to determine the weighing value of material to be weighed. It is intended to be used as a "non-automatic" balance, i.e. the material to be weighed is manually and carefully placed in the centre of the weighing plate. As soon as a stable weighing value is reached the weighing value can be read.

#### 4.2 Improper Use

Do not use balance for dynamic weighings. In the event that small quantities are removed or added to the material to be weighed, incorrect weighing results can be displayed due to the "stability compensation" in the balance. (Example: Slowly draining fluids from a container on the balance.)

Do not leave permanent load on the weighing plate. This may damage the measuring system.

Impacts and overloading exceeding the stated maximum load (max) of the balance, minus a possibly existing tare load, must be strictly avoided. Balance may be damage by this.

Never operate balance in explosive environment. The serial version is not explosion protected.

The structure of the balance may not be modified. This may lead to incorrect weighing results, safety-related faults and destruction of the balance.

The balance may only be used according to the described conditions. Other areas of use must be released by KERN in writing.

#### 4.3 Warranty

Warranty claims shall be voided in case

- Our conditions in the operation manual are ignored
- The appliance is used outside the described uses
- The appliance is modified or opened
- Mechanical dammage or dammage by media, liquids, natural wear and tear
- The appliance is improperly set up or incorrectly electrically connected
- The measuring system is overloaded

#### 4.4 Monitoring of Test Resources

In the framework of quality assurance the measuring-related properties of the balance and, if applicable, the testing weight, must be checked regularly. The responsible user must define a suitable interval as well as type and scope of this test. Information is available on KERN's home page (<a href="www.kern-sohn.com">www.kern-sohn.com</a> with regard to the monitoring of balance test substances and the test weights required for this. In KERN's accredited DKD calibration laboratory test weights and balances may be calibrated (return to the national standard) fast and at moderate cost.

#### 5 Basic Safety Precautions

#### 5.1 Pay attention to the instructions in the Operation Manual

Carefully read this operation manual before setup and commissioning, even if you are already familiar with KERN balances.

#### 5.2 Personnel training

The appliance may only be operated and maintained by trained personnel.

#### 6 Transport and storage

#### 6.1 Testing upon acceptance

When receiving the appliance, please check packaging immediately, and the appliance itself when unpacking for possible visible damage.

#### 6.2 Packaging

Keep all parts of the original packaging in case you need to return the appliance. Only use original packaging for returning.

Before sending, disconnect all connected cables and loose/movable parts. Attach possibly existing transport safeguards. Secure all parts, e.g. weighing plate, power unit etc., to prevent slipping and damage.

#### 7 Unpacking, Setup and Commissioning

#### 7.1 Installation Site, Location of Use

The balances are designed in a way that reliable weighing results are achieved in common conditions of use.

You will work accurately and fast, if you select the right location for your balance.

#### Therefore, observe the following for the installation site:

- Place the balance on a firm, level surface;
- Avoid extreme heat as well as temperature fluctuation caused by installing next to a radiator or in the direct sunlight;
- Protect the balance against direct draughts due to open windows and doors;
- Avoid jarring during weighing;
- Protect the balance against high humidity, vapours and dust;
- Do not expose the device to extreme dampness for longer periods of time.
   Non-permitted condensation (condensation of air humidity on the appliance) may occur if a cold appliance is taken to a considerably warmer environment.
   In this case, acclimatize the disconnected appliance for ca. 2 hours at room temperature.
- Avoid static charge of goods to be weighed or weighing container.

If electro-magnetic fields or static charge occur, or if the power supply is unstable major deviations on the display (incorrect weighing results) are possible. In that case, the location must be changed.

#### 7.2 Unpacking

Carefully remove the balance from the packaging, remove plastic cover and setup balance at the intended workstation.

#### 7.2.1 **Setup**

Level balance with foot screws until the air bubble of the water balance is in the prescribed circle.

#### 7.2.2 Scope of delivery

#### Serial accessories:

- Balance
- Weighing plate
- Power cable
- Protective cover
- Batterv
- Operating Manual

#### 7.3 Mains connection

Power supply is carried out by means of the supplied power cable (220 V, 50-60 Hz).

#### 7.4 Battery power supply

#### The battery is charged via the internal power supply.

Before the first use, the battery should be charged by connecting it to the mains power supply for at least 15 hours. The operating time of the battery is about. 70h. Charging time until complete recharging ca. 12h.

Selectable AUTO-OFF function after 1, 5, or 10 min (see chapt. 10) to protect the battery.

If an arrow shows in the weight display [V] above the battery symbol or "bat lo" the capacity of the battery will soon be exhausted. The balance will be ready to operate for about another 10 min., then it will switch off automatically. Connect the power adaptor as soon as possible to change the battery.

The LED display below the parts counting window informs you about the charge status of the battery.

red: Battery is almost discharged green: Battery is completely discharged

yellow: Battery should be charged over a longer period (over night)

#### 7.5 Initial Commissioning

A warming up time of 5 minutes after switching on stabilizes the measuring values. The accuracy of the balance depends on the local acceleration of gravity. Strictly observe hints in chapter Adjustment.

#### 7.6 Adjustment

As the acceleration value due to gravity is not the same at every location on earth, each balance must be coordinated - in compliance with the underlying physical weighing principle - to the existing acceleration due to gravity at its place of location (only if the balance has not already been adjusted to the location in the factory). This adjustment process must be carried out for the first commissioning, after each change of location as well as in case of fluctuating environment temperature. To receive accurate measuring values it is also recommended to adjust the balance periodically in weighing operation.

#### Procedure when adjusting:

For verified balances adjustment by means of a jumper is locked. In order to carry out adjustment the two contacts of the conductor plate must be shorted with a jumper (see chapt. 7.7.1).

Observe stable environmental conditions. A warming up time of ca. 10 minutes is required for stabilization. Ensure that there are no objects on the weighing plate.

Operation	Display
Switch on balance	PN
Use the number keys to enter password "0000":  TARE  confirmar	PN
Ensure that there are no objects on the weighing plate.	The required adjustment weight is displayed:

Carefully place adjusting weight in the centre of the weighing plate

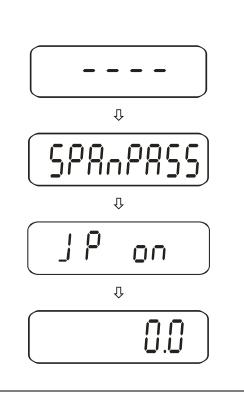


The adjustment process is started.

The adjustment process has been successfully completed.

Remove adjustment weight and jumper.

The balance returns to weighing mode



In case of an adjustment error or incorrect adjustment weight an error message is shown (5PRO / FRI Ld) on the display, repeat adjustment process.

#### 7.7 Verification

#### General introduction:

According to EU directive 90/384/EEC balances must be officially verified if they are used as follows (legally controlled area):

- a) For commercial transactions if the price of goods is determined by weighing
- b) For the production of medicines in pharmacies as well as for analyses in the medical and pharmaceutical laboratory
- c) For official purposes.
- d) For manufacturing final packages.

In cases of doubt, please contact your local trade in standard.

After verification the balance is sealed at the indicated positions.

Verification of the balance is invalid without the "seal/lead seal".

#### **Verification instructions**

An EU type approval exists for balances described in their technical data as verifyable. If a balance is used where obligation to verify exists as described above, it must officially verified and re-verified in regular intervals.

Re-verification of a balance is carried out according to the respective national regulations. The validity for verification of balances in Germany is e.g. 2 years.

The legal regulation of the country where the balance is used must be observed!

#### Balances with obligation to verify must be taken out of operation if:

- The weighing result of the balance is outside the error limit. Therefore, in regular intervals load balance with known test weight (ca. 1/3 of the max. load) and compare with displayed value.
- The reverification deadline has been exceeded.

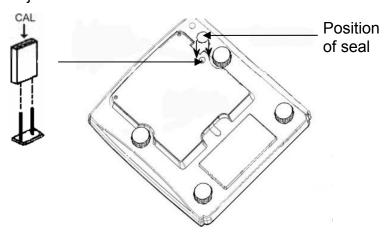
#### 7.7.1 Jumper and seals

#### 1. Bottom of the balance

Access to conductor plate:

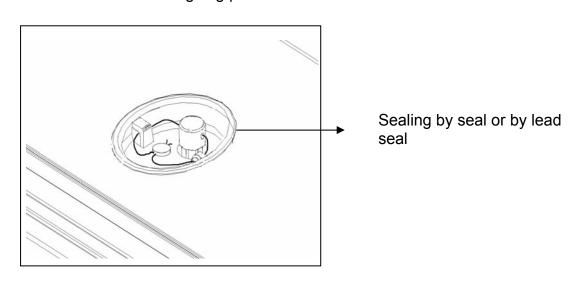
- Place your balance upside down
- Remove seal
- For verified balances, the jumper is on a pin
- For adjustment the jumper must be set on both pins

#### Position jumper for adjustment



#### 2. Top of the balance

• Remove weighing plate



### 8 Operation

### 8.1 Switch on/off and set zero

Operation	Display
Switch on balance  Press ON/OFF switch and hold briefly (at the bottom right side of the balance)  The balance will carry out a self-test	As soon as the weight display shows "0" in all the three display windows your balance is ready to weigh.
2. Zeroing	NET ~→0←  The zero display and the arrow above the "→0←" symbol are displayed.

### 8.2 Simple weighing

Operation	Display
Place goods onto weighing plate	Read weighing result    NET
If the goods are heavier than the weighing range, the display will show "o'L" (=Overload), and a whistle is sounded.	

#### 8.3 Weighing with taring

The dead weight of any weighing container may be tared away by pressing a button, so that the following weighings show the net weight of the goods to be weighed.

Operation	Display
Place empty tare container on the weighing plate. The total weight of the container is displayed.	kg NET ~ →0←
Reset display to "0":	The weight of the container is now internally saved. Zero display and the arrow above the "NET" symbol are displayed.
Place the goods to be weighed into the tare container.	Read the weight of the goods on the display.

The taring process can be repeated any number of times, e.g. when adding several components for a mixture (adding).

#### 8.4 Weighing with price determination

As soon as the goods to be weighed are placed on the balance and the basic price has been set the price is calculated automatically and displayed in the provided field.

#### 8.4.1 Manual input of a basic price

Operation	Display			
Operation	Weight [kg]	Basic price	Price [ € ]	
If you are using a weighing container, tare	0.000	0.00	0.00	
Place goods to be weighed on balance	1.300	0.00	0.00	
Enter basic price via num- ber keys; sales price is automatically calculated	1.300	5.00	6.50	

#### 8.4.2 Saving and calling up a basic price

- The balance is able to save up to 102 PLU values as basic price.
- The PLU value may be saved as €/kg or €/100 g.
- The keys M1 and M2 are used to save /call up the two most frequently used PLU values
- The other PLU values are saved/called up via the M3..-key.

#### Saving a basic price via the direct price keys M1, M2:

Operation	Display			
Operation	Weight [kg]	Basic price	Price [ € ]	
Enter a basic price via key- board	0.000	2.00	0.00	
until there is a short beep (3 sec), then release the key	PLU	1	SAuEd	
Entry for M2 is carried out in the same way				

### Saving a unit price using the M3 key:

### 1. PLU 3

Operation	Display			
Operation	Weight [kg]	Unit price	Price [€]	
Enter your unit price using the keyboard, either in €/kg or €/100 g	0.000	2.00	0.00	
until there is a short beep (3 sec), then release the key immediately	SAuE	Po5 00		
Wait until the display shows "PLU 3 saved". The unit price will be automatically saved under PLU 3.	PLU	3	SAuEd	

### 2. Further PLU X values

Operation	Display			
Operation	Weight [kg]	Unit price	Price [€]	
Enter your unit price using the keyboard, either in €/kg or €/100 g	0.000	2.00	0.00	
until there is a short beep (3 sec), then release the key immediately	SAuE	Po5 00		
Enter the numbers within 3 sec of your desired PLU or leave the value 00 for [PLU 3]		רו		
The unit price is saved at the desired position. An acoustic signal acknowledges that the PLU has been saved.	PLU	١٦	SRuEd	

To modify values which have been saved at a certain PLU position, simply repeat the procedure.

#### Call up a unit price:

Operation	Display			
Operation	Weight [kg]	Unit price	Price [€]	
M3	L O A d	Po5 00		
+ PLU position	L O A d	Po5 17		
The unit price saved at this position is displayed	0.000	2.00	0.00	

**Note:** For the M1, M2 and M3 keys (no entry at position 00) only press the respective key to display the saved unit price.

#### 8.5 AUTO CLEAR

Use the key to activate the **AUTO-CLEAR** function; at the same time the arrow above "**AUTO CLEAR**" appears in the display.

Remove the goods to be weighed from the weighing plate, this way the set basic price will remain.

For activated **AUTO-CLEAR** function the set basic price is automatically deleted when the balance is unloaded.

### 9 Display background illumination

Operation	Display
Hold for 4 sec	ELAU
To select your setting:	1. Background illumination off
Press until your desired setting is displayed	EL OFF  2. Background illumination on  EL On  3. Automatic background illumination on when weighing pate is loaded  EL RU
Saving your settings:	or return to weighing:
TARE	

#### **10 AUTO OFF function**

For battery operation the balance has an automatic switch-off function which can be activated or deactivated in the menu. Proceed as follow

Operation	Display
Switch on balance and press the →0← key during self test	SLEEP NOJE
To select your setting:	1. Automatic switch off deactivated
Press until your desired setting is displayed	SLEEP NOdE 0  2. Automatic switch off after 1 min  SLEEP NOdE I  3. Automatic switch off after 5 min  SLEEP NOdE 5  4. Automatic switch off after 10 min  SLEEP NOdE 10
Saving your settings:	or return to weighing:
TARE	

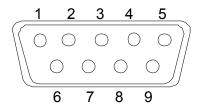
#### 11 Data Interface RS 232C

As standard, the balance is fitted with an RS 232C interface.

#### 11.1 Technical data

- ASCII code
- 8 data bits
- no parity bit
- baud rate 4800 baud

#### 11.2 Pin allocation for the balance output socket (front view)



Pin 2: Receive data Pin 3: Transmit data Pin 5: Signal ground

#### 11.3 Parameter selection

- To access the menu, hold the PRINT key pressed for 4 seconds
- Use the PRINT key for parameter selection
- Confirm your settings using the TARE key, the next menu option will be displayed

	Display		Selection op-	Function
Weight	Unit price	Total price	tions	
Port	on		on or oFF	RS 232C on/off
4800	bPS		600, 1200, 2400,4800, 9600 or 19200	Baud rate
LAbEL	1		1 or 2	Output format selection
CoUntr	Y E	nGLiSH	EnGLiSH, FrEnCH, GErMAn or SPAniSH	Language selection
StErLi	ng		EUroPE, dOLLAr, StErLinG	Currency selection

# Example of output format (German/Euro): Label 1

08/0	01/2007	07:	56:38		
GR	UNDPREI	S	NETTO	SL	JMME
€	1.20/10	Ͻg	0.200 kg	€	2.40

#### Label 2

DATUM		08/01/2007
ZEIT		07:56:38
GRUNDPREIS	€	1.20/100g
NETTO		0.200 kg
SUMME	€	2.40

#### 11.4 Setting the date/time

During power up of the balance, press the C key and hold it pressed until the revision number of the balance is displayed. Then release the C key, the set date/time is displayed:

"rtC" ,,08,01,07" ,,16,41,35"

- Press the C key, the current time format "H-m-S" is displayed.
- Enter the time (24 hour format) using the number keys (e.g. 3:41 PM = "154100)
- Confirm the entry with the TARE key, the set date is displayed
- Select the desired format with the PRINT key:

"Y-m-d" = Year-Month-Day

"m-d-Y" = Month-Day-Year

"d-m-Y" = Day-Month-Year

- Confirm the selected format with the TARE key
- Enter the date using the number keys
- Confirm the entry with the TARE key. If an entry is not permitted (e.g. 34.12.07) then the error messages Err1 (time) or Err 2 (date) will be displayed. The balance returns to weighing mode automatically.

#### 11.5 Remote control instructions

T<cr><lf> Taring

**Z<cr><lf>** Zeroing

P<cr><lf> Data output

#### 12 Service, maintenance, disposal

#### 12.1 Cleaning

Before cleaning, please disconnect the appliance from the operating voltage.

Please do not use aggressive cleaning agents (solvents or similar agents), but a cloth dampened with mild soap suds. Ensure that no liquid penetrates into the device and wipe with a dry soft cloth.

Loose residue sample/powder can be removed carefully with a brush or manual vacuum cleaner.

Spilled weighing goods must be removed immediately.

#### 12.2 Service, maintenance

The appliance may only be opened by trained service technicians who are authorized by KERN.

Before opening, disconnect from power supply.

#### 12.3 Disposal

Disposal of packaging and appliance must be carried out by operator according to valid national or regional law of the location where the appliance is used.

### 13 Instant help

In case of an error in the program process, briefly turn off the balance and disconnect from power supply. The weighing process must then be restarted from the beginning.

Fault	Possible cause
The displayed weight does not glow.	The balance is not switched on.
	The mains supply connection has been interrupted (mains cable not plugged in/faulty).
	Power supply interrupted.
	Batteries are inserted incorrectly or empty
	No batteries inserted.
The displayed weight is permanently changing	Draught/air movement
	Table/floor vibrations
	Weighing plate has contact with other objects.
	Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)
The weighing result is obviously in-	The display of the balance is not at zero
correct	Adjustment is no longer correct.
	Great fluctuations in temperature.
	Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)

Should other error messages occur, switch balance off and then on again. If the error message remains inform manufacturer.