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Operating instructions
Pallet truck scales

Paletový vozík s váhou a tlačou KERN VFS(SK)

Version 1.1
10/2011
GB



GB

KERN VFS

Version 1.1 10/2011

Operating instructions Pallet truck scale

English

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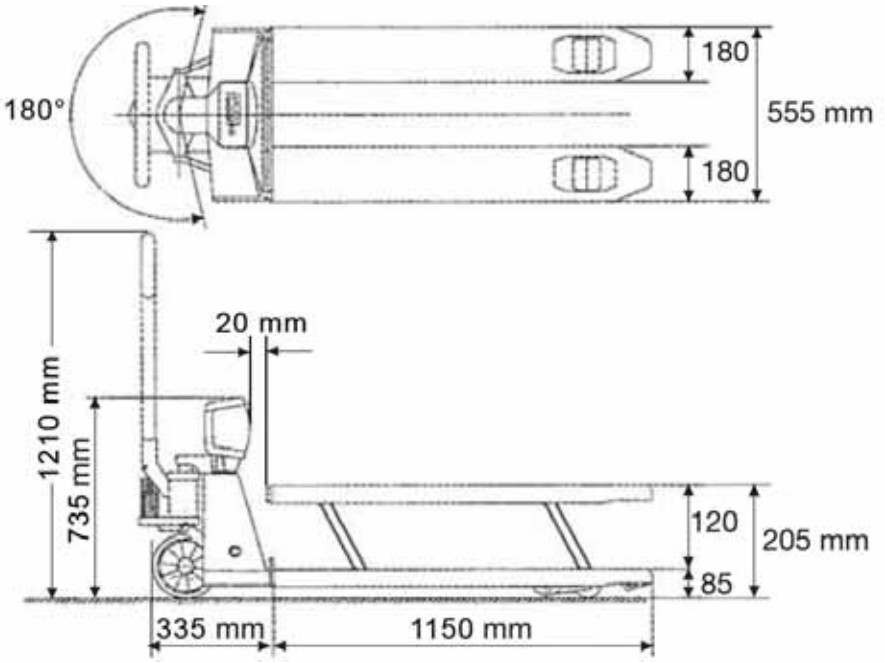
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English

1 Technical data

KERN	VFS 2T1
Readability (d)	1 kg
Weighing range (max)	2000 kg
Reproducibility	1 kg
Linearity	± 2 kg
Warm-up time	10 min
Recommended adjustment weight (not added) class	1,5 t (M1)
Allowable ambient temperature	0° C .... + 40° C
Humidity of air	max. 95 % (not condensing)
Weighing Units	kg, lb, oz
Electric Supply	220V-240V AC 50Hz
Rechargeable battery	6V 10 Ah Operating period background illumination OFF: 60h Loading time: 15 h
Auto Off	Options: 0, 3, 5, 15, 30 min
Net weight	125 kg
Fork height	max: 200 mm min: 85 mm
LCD-display cipher height	52 mm

Dimensions in mm:



2 Basic instructions about weighing system

2.1 Proper use

The weighing system 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 loading fork. As soon as a stable weighing value is reached the weighing value can be read.

2.2 Improper Use

Do not use the weighing system for dynamic weighing. 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 weighing system. (Example: Slowly draining fluids from a container on the weighing system.)
Do not leave permanent load on the loading fork. This may damage the measuring system.
Impacts and overloading exceeding the stated maximum load (max) of the weighing system, minus a possibly existing tare load, must be strictly avoided. The weighing system could be damaged.
Never operate the weighing system in an explosive environment. The serial version is not explosion protected.
Changes to the weighing system's design are not permitted. This may lead to incorrect weighing results, safety-related faults and destruction of the weighing system.
The weighing system unit may only be operated in accordance with the described default settings. Other areas of use must be released by KERN in writing.

2.3 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 damage and damage caused by media, liquids
- natural wear and tear
- The appliance is improperly set up or incorrectly electrically connected
- The measuring system is overloaded

2.4 Monitoring of Test Resources

In the framework of quality assurance the measuring-related properties of the weighing system 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 (www.kern-sohn.com) 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.

3 Basic safety notes about weighing system

3.1 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.

3.2 Personnel training

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

4 Transport and storage

4.1 Testing upon acceptance

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

4.2 Packaging / return transport



- Keep all parts of the original packaging for a possibly required return.
- Only use original packaging for returning.
- Prior to dispatch disconnect all cables and remove loose/mobile parts.
- Reattach possibly supplied transport securing devices.
- Secure all parts such as the glass wind screen, the weighing platform, power unit etc. against shifting and damage.

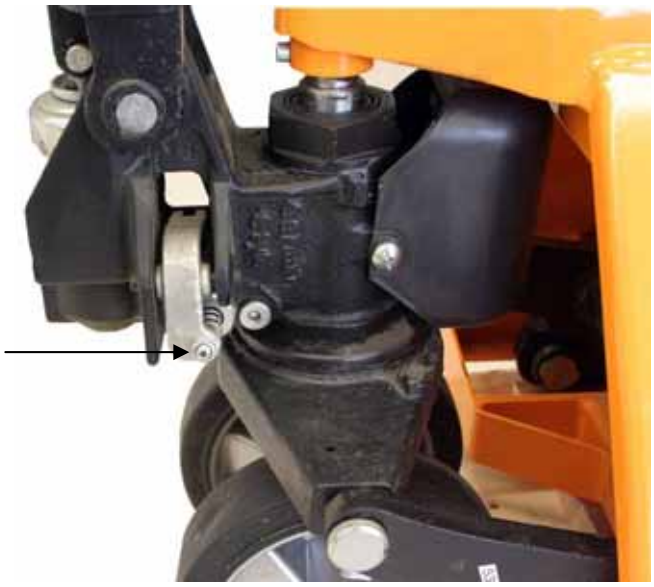
5 Unpacking, Setup and Commissioning

5.1 Assembly of the pallet truck scale

5.1.1 Drawbar

The drawbar is delivered separated from the hydraulic lifting device. Prior to commissioning the two components must be connected to each other. Details see below.

⇨ Turn out screw for hydraulic adjustment



⇨ Pass the draw chain of the drawbar through the opening and after that through the bolt in the pallet truck scale

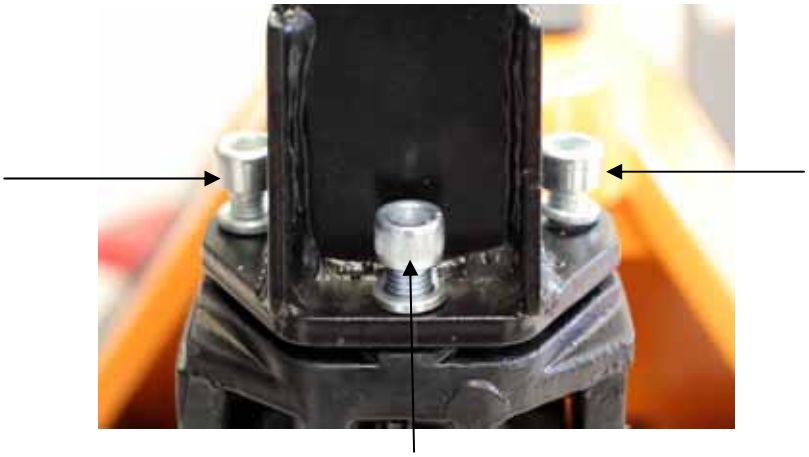




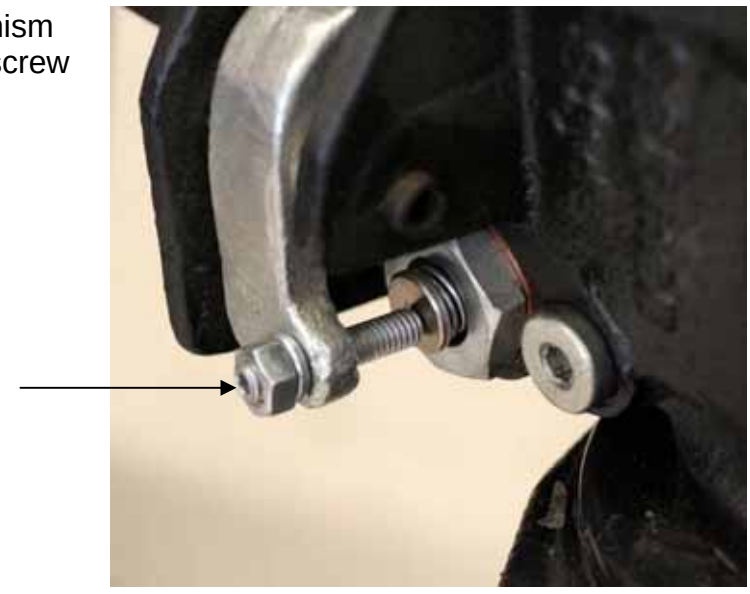
⇨ Insert rod at the lower end of the draw chain at the oblong hole of the hydraulic lever till to the stopper



⇨ Fix the grab handle using 3 screws



⇨ To start-up the lifting mechanism screw down the adjustment screw till to the preset stopper



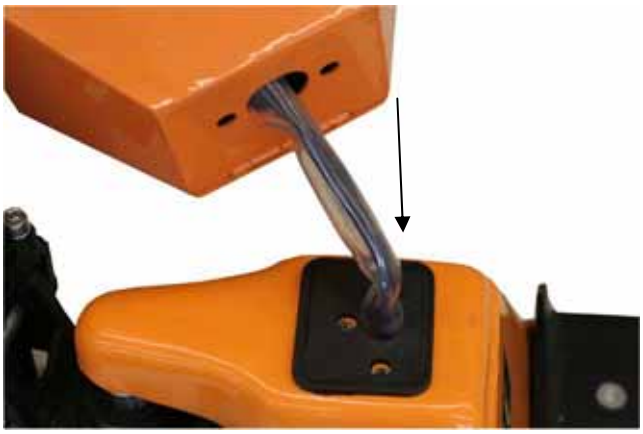
English

5.1.2 Display unit

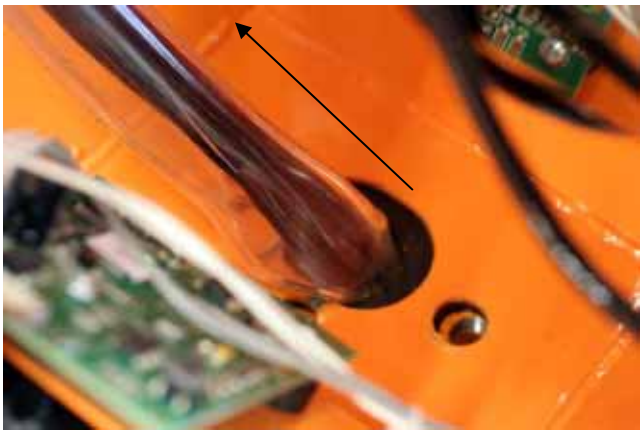
⇨ Loosen the screws at the side



⇨ Display unit will be assembled to the shown position

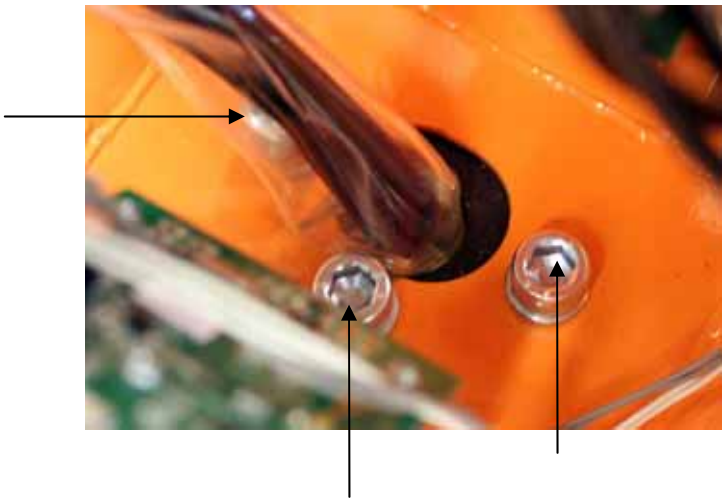


⇨ For assembly ensure that the cable is properly passed and not damaged.



English

⇨ Screw-in 3 screws



⇨ Again screw-in the side screws



5.2 Proper use of the lifting device



⇨ Lower the loading fork

⇨ Move the load

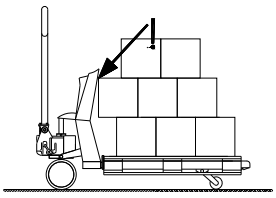
⇨ Lift the loading fork

English

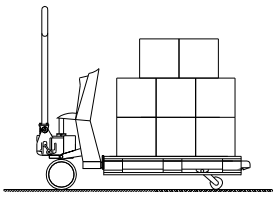
5.3 Installation site, location of use of the weighing system

The weighing system is designed to achieve reliable weighing results under normal conditions of use.
You will work accurately and fast, if you select the right location for your weighing system.
Therefore, observe the following for the installation site:

- The load must be lifted clear of the display unit's case and other pallets.

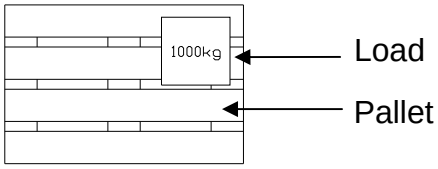


Incorrect lifting of a load

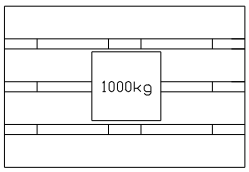


Correct lifting of a load

- The accuracy of the weighing system is falling by approximately 0.1 % per degree if there is a slant of more than 2°. Holes and unevenness, too, have this effect. A smooth floor is ideal.
- Optimum accuracy in weighing results is achieved if the load centre is between the forks. The forks are easily bent and twisted when the load is off-centre. This may result in diminished accuracy.
  In verifiable models off-centre loads, or slants affecting accuracy, activate the inclination switch which in turn disconnects the display.

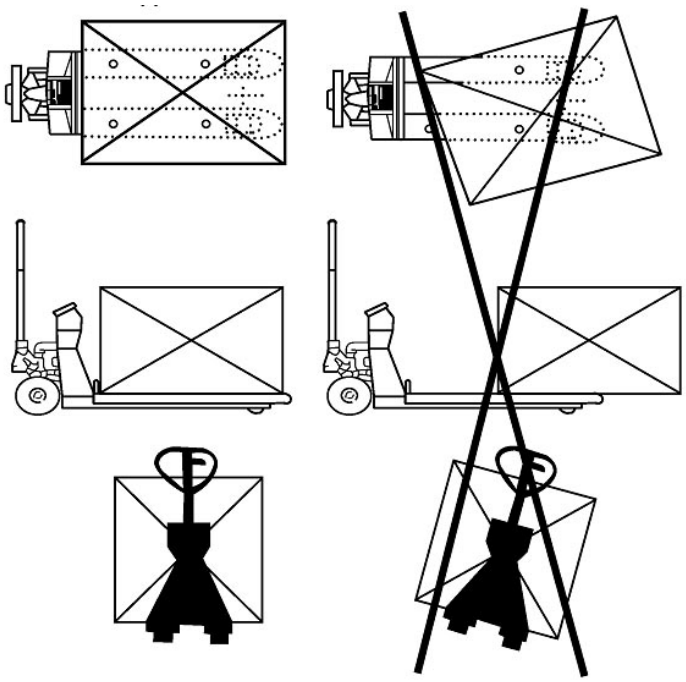


Non-optimal positioning of load



Optimal positioning of load

- Temperature range: The maximum deviation for 0.1% of the weighed load is between -10 and +40°C. Outside this temperature range deviations of up to 0.3% may occur.
- Avoid jarring during weighing
- Protect the weighing system 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.
- Major display deviations (incorrect weighing results) may be experienced should electromagnetic fields (e.g. due to mobile phones or radio equipment), static electricity accumulations or instable power supply occur. Change location or remove source of interference.



5.4 Scope of delivery

Serial accessories:



Pallet truck scales



Drawbar



Screws
Shims
Hexagonal socket wrench



Mains adapter



Battery block



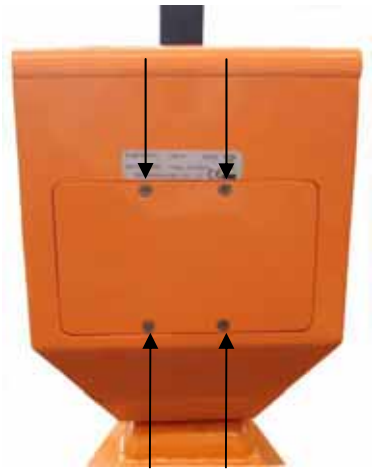
Operating instructions

English

5.5 Rechargeable battery operation

5.5.1 Rechargeable battery installation

⇨ Screw-out 4 screws at the reverse of the display unit and remove the cover of the battery compartment



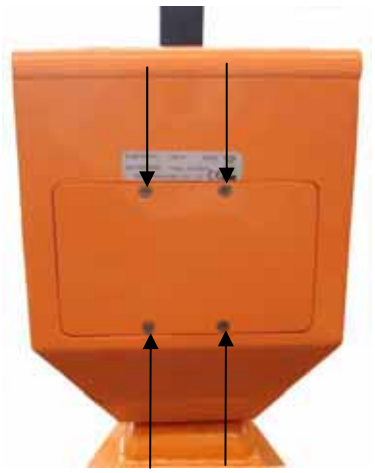


⇨ Connecting the rechargeable battery



Watch the colours:
Red on red and
Black on black!

⇨ Re-insert the cover of the battery compartment and screw-in the 4 screws



To economize the rechargeable battery, the weighing system switches off automatically x minutes after a finished weighing as preset in menu item „F3 oFF“ (chap. 9.2).
If the capacity of the rechargeable battery is soon exhausted, in the display appears the battery symbol 

. The weighing system remains ready for operation for an other 30 minutes, after that it switches off automatically to economize the rechargeable battery.
To load the rechargeable battery, connect the delivered power pack, the weighing system needs not to be switched on. After 15 hours the rechargeable battery is completely loaded.

Left next to the display window there is a LED  , which illuminates during the loading process.

5.6 Commissioning

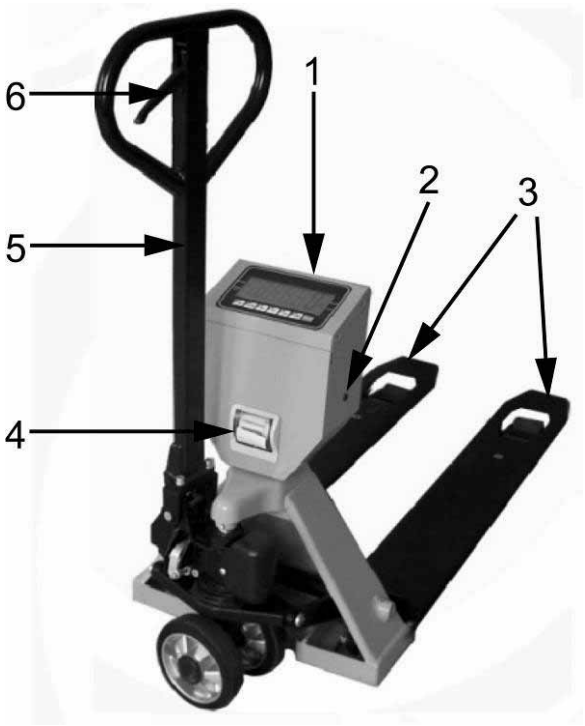
Prior to starting-up the weighing system, load the rechargeable battery completely.

To activate the weighing system, press the 

key.
The operating temperature for the electronic system and the weighing cells will have been reached after three to five minutes. Prior to this, deviations of c. 0.3% are possible.

Loads should not be lifted before this zero adjust is complete.

5.7 Appliance overview



1 Display unit
2 Connection of mains adapter
3 Loading fork
4 Printer
5 Drawbar
6 Manual lever
(Hand lever + Drawbar = Lifting device)

English

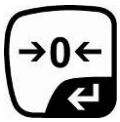
5.8 Overview of display



BAT	Capacity display rechargeable battery: Capacity of rechargeable battery soon exhausted, see chap. 5.5
STABLE	The weighing system (incl. load) is stable
ZERO	The weighing system is unloaded
▬	The indicated weight has a negative value
GROSS	The indicated value is a gross weight
NET	The indicated value is a net weight
TARE	One or several tare values have been saved
kg, lb, oz.	Weighing Units
M+	Weight value(s) in sum memory

5.9 Keyboard overview

Each key provides an operating as well as an input function.

	Operating function	Input function
	Switch on or switch off	----------
	Zero-setting	Confirm entry
	Input of tare	Entering numeric values: Increases the numeric value of flashing digit by 1.
	• Enter pretare value (press button long time) • Call up the saved pretare value (press button short time)	Entering numeric values: Moves the flashing digit to the right by one position
	• Add value into sum memory • Printout	Entering numeric values: Moves the flashing digit to the left by one position
	Change from gross weight to tare weight	Entering numeric values: Delete value
	Weighing units switch-over	Return to weighing mode



Actuation of a button is only accepted, when the load is stable (and the stability display „**STABLE**“ is illuminated). The display unit only carries out functions as long as the load is stable.

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.

Observe stable environmental conditions. A warming up time (see chapter 1) is required for stabilization. Ensure that the system is not loaded. The system should be lifted by approximately 2 lifting index markings and stand absolutely free.

6.1 Zero-setting

⇨ Unload the weighing system and switch-on by 

.

⇨ If the weighing system does not display „**0.0**“, press 

6.2 Performance of adjustment

⇨ Turn-on system with ON/OFF

⇨ Press →0← and TARE at the same time, „**F1Unt**“ will be displayed

⇨ Press TARE repeatedly until „**ProG**“ is displayed

⇨ Press →0←, „**Pn**“ is displayed

⇨ Then press M+/PRINT, after that UNIT/ESC and subsequently TARE, „**P1rEF**“ is displayed

⇨ Press TARE, „**P2 CAL**“ will be displayed

⇨ Confirm by →0←, „**dECi**“ is displayed

⇨ Press TARE repeatedly until „**CAL**“ is displayed

⇨ Confirm by →0←, „**UnLd**“ will be displayed

⇨ Wait for stability display „**STABLE**“, then press →0←, the value of the adjustment weight used most recently will be displayed. (recommended adjustment weight see chap. 1)

⇨ Enter adjustment with M+/PRINT, PRE TARE and TARE (use M+/PRINT and PRE TARE to change to the next decimal digit, use TARE to change the numerical value; use BG/NET C to reset to „0“ the numerical value.)

⇨ Press →0←, „**LoAd**“ will be displayed

⇨ Place the adjustment weight, after apparition of stability display „**STABLE**“, press →0←

If the adjustment has been carried out successfully, the system changes over into weighing mode, the value of the placed adjustment weight is displayed.
If an error message appears, repeat the adjustment process.
If the fault appears again, please contact your retailer.

English

7 Functions of display unit

7.1 Prior to weighing

7.1.1 Zero-point check

Prior to each weighing process ensure that the system is unloaded and clear of obstructions. The display unit provides automatic zero adjustment. This means, that small deviations from the zero-point are corrected automatically. If the display unit does not correct the zero-point automatically you will have to carry out a manual correction with the help of the 

key.

7.1.2 Net weighing: Taring by button

The display unit offers an option that allows tare weights to be reset to zero by pressing a button. In this way net weight changes can be traced. After taring, the display unit will once again start at the smallest display step.

⇨ Lifting a load, e.g. a pallet. The weight value of the pallet is displayed.

⇨ Press 

button. The weight value is stored as tare value.
The display unit goes to zero.
The lit up display "**NET**", indicates that a tare weight is active.

⇨ Place the sample, only the weight of the sample is displayed.

⇨ Withdraw sample for other weighing and proceed with the new samples as described before.

When the pallet is removed, the display shows the weight of the pallet as a negative value.

7.2 Weighing

⇨ Press downwards the hand lever of the lifting device, the weighing system is lowered.

⇨ Switch-on by 

, after a concluded self-test the system changes to zero display „**0.0**“

⇨ If „**0.0**“ is not displayed, press 

⇨ Place the loading fork under the pallet in a way that the pallet is in the centre of the loading fork.

⇨ Move upwards the loading fork with help of the lifting device until the load has completely detached from the floor
If the stability display „**STABLE**“ lights up, the gross weight will be displayed.

Printout example (see chap. 8 Printer):

Date	2011/06/09	Date
Time	17:34:27	Time
	18.30 kg	Weight

English

7.2.1 Gross - net weighing

After the load was lifted, e.g. on a pallet, the display shows the gross value of the weighed weight.

7.2.2 Net weighing



This function may only be carried out, after the system having been tared. “**NET**“ will be displayed

Use the button 

to switch over between the display of the net weight and the display of the gross weight.

7.3 Weighing units switch-over

Press the UNIT button to set the different weighing units.
These must be activated in menu (chap. 9.2) before.

7.4 Totalization

The display unit offers an option that allows the addition of weighing values and the display of the total weight. If a tare weight is active, the net weight is automatically added up.

- ⇨ No load may be on the loading fork
- ⇨ The system should be stable (stability display „**STABLE**“ illuminated)
- ⇨ The added-up weighing value must be more than 20d.

⇨ Loading the system with the load to be added

⇨ Wait for stability display „**STABLE**“, then press 

, the weight value will be added into a sum memory

⇨ „**ACC 01**“ will be shortly displayed, after that the system changes into the standard weighing mode. Next to the weight display „**M+“** appears

⇨ Unload the system, the display returns to „**0.0**“

⇨ 2. Place the weighing good, wait for stability display „**STABLE**“

⇨ Press 

anew

⇨ „**ACC 02**“ is displayed, after that the total sum of the weighing procedures will be displayed briefly before the system returns to weighing mode

⇨ Carry out further weighings in the same way. Ensure that the system is unloaded between the weighing procedures.

⇨ The weighing system maximally can carry out 99 single weighing procedures

⇨ To print out data unload weighing system and press 

Printout example (see chap. 8 Printer):

Date	2011/07/04	Date
Time	14:03:26	Time
No.	3	Number of single weighings
N.W.	30.0kg	Weight of the last single weighing
TOTAL	66.0kg	Total weight

Display of the saved weighing data:

⇨ The system must be in zero display („**ZERO**“-is displayed)

⇨ Press 

, „**ACC n**“ will be displayed (n means number of single weighings) and after that the total weight of the weighing will appear for approx. 2 seconds, before the weighing system returns into the standard-weighing mode.

⇨ Date, time, number of weighings, weight of the last single weighing and the total weight are printed out.

Delete weighing data:

⇨ Press 

, release the button and whilst the total weight is being displayed, press 

; the display goes to zero, the stored data are deleted, the „**M+**“ at the side disappears and the system returns automatically into weighing mode.

English

7.5 Numerical tare input (PRETARE)

You may enter the tare weight at any time, that is, regardless whether the scales are in a loaded or unloaded state. To achieve higher accuracy, a tare weight with a higher resolution may be entered, regardless of the size of the weight and the display steps of the indicator.
A tare weight which is bigger than the maximum of the weighing system, will not be accepted.

7.5.1 Enter tare weight

Call up the saved Pretare value:

⇨ Press PRE TARE, „**PtL 0**“ will be displayed

⇨ Select memory location (0-9) using TARE, confirm memory location by →0←, the pretare value stored on this memory location will be activated

⇨ Lift-off load, the gross weight is displayed, moreover „GROSS“ will appear

⇨ Use BG/NET C to switch over between gross and tare weight („NET“ is displayed).

Enter pretare value:

⇨ Press PRE TARE for 3 seconds, the tare value saved as last is displayed, the last digit flashes.

⇨ To **change the tare value saved as last**:
Increase the flashing digit by TARE, use M+/PRINT to change over to the next decimal digit, confirm by →0←, „**Pts 0**“ is displayed

⇨ Select memory location (0-9) using TARE, confirm memory location by →0←, „**0.0**“ is displayed

⇨ Lift-off load, the gross weight is displayed, in the display appears „GROSS“

⇨ Press BG/NET C, the net weight („NET“) is displayed

⇨ Use BG/NET C to switch over between gross and tare weight.

Printout example (see chap. 8 printer)**:**

No.	6	Number of weighing procedures
G.W.	66.0 kg	Gross weight
N.W.	34.0kg	Net weight

7.5.2 Call-up stored tare weight

⇨ In weighing mode press 

, the stored tare value is displayed

7.5.3 Delete pretare value

When entering the pretare value, set all decimal digits to „0“

8 Printer

The current weighing data my be printed out.

⇨ Press 

button.

⇨ A printout will be made. The current weight is added to the addition memory.

On the printout a gross weight with the letters “G.W.” or a net weight with the letters “N.W.” is displayed. The total net weight is printed out behind “TOTAL”.
According to the settings in the menu (chap. 9.2), menu item F4 Prt“, the following printout variants can be chosen

English

Format 1:

Date	2011/06/09	Date
Time	17:34:27	Time
	18.30 kg	Weight

Format 2:

Number of single weighings	Weight of last weighing)
2	6.69kg

Format 3:

No.	6	Number of weighing procedures
G.W.	66.0 kg	Gross weight
N.W.	34.0kg	Net weight

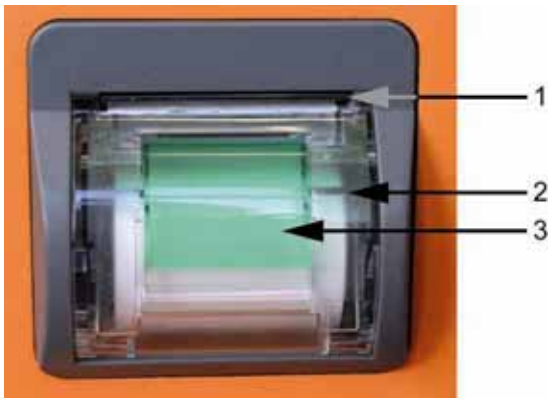
Format 4:

No.	3	Number of weighing procedures
N.W.	18.30kg	Weight of last weighing

Format 5:

Date	2011/06/09	Date
Time	17:34:27	Time
No.	4	Number of weighing procedures
N.W.	62.0 kg	Weight of last weighing
TOTAL	245.5 kg	Total weight of all weighing procedures

8.1 Paper change



1 Draw-off edge and paper outlet

2 Cover plate

3 Bracket

⇨ Switch off weighing system





⇨ Pull out the bracket until the cover plate opens; do not apply too much force in order to avoid damage.





⇨ Insert the paper roll, the loose side has to point forwards

⇨ Hold fast the loose side of the paper roll when the printer is being closed.

To close the printer:

⇨ Press on both sides of the cover plate at the same time.

In order to pull-off the paper correctly:

⇨ Pull the paper from one to the other side over the pull-off edge.

English

Dimensions Thermopaper:

(in) diameter	47 mm
Width	56 mm

9 Menu

In the menu the settings of the weighing system can be modified and functions can be activated. With that the weighing system may be adapted to individual weighing requirements.
Four menu items can be selected to change settings. Moreover there is an other menu item for adjustment.

9.1 Navigation in the menu

Access to menu:

In weighing mode press 

and 

at the same time and also release at the same time The first menu item „**F1Unt**“ is displayed

How to select menu items:

Press 

to select the individual menu items showing the current settings one by one.

Change settings:

Press 

to change the setting of a selected menu item. Each time the 

button is pressed the next setting will be displayed. As soon as the desired setting appears on the display you can select the next menu item (see above) or exit the menu (see paragraphs below).
Use 

und 

to change to the next decimal digit, use 

to increase by „1“ the decimal digit.

How to save settings and to exit the menu:

Press 

button, the selecting setting is saved.

Exit menu by pressing the 

button, system returns to weighing mode.

9.2 Menu overview

Menu item	Submenu item		Description
F1Unt	kg*****	on	**Weighing units** adjustable: kg*, lb, oz
		oFF	
	lb	on	
		oFF	
	ozt	on	
		oFF	
F2 dAt	d-m-y	yy	**Display date and time:** **Indicator: day - month - year** Display year Format: [JJ]
		mmdd	Display month and day Format: [MM.TT]
		HHmm	Display time (hour/minutes) Format: [hh.mm]
	y-m-d	yy	**Indicator: year - month - day** Display year Format: [JJ]
		mmdd	Display month and day Format: [MM.TT]
		HHmm	Display time (hour/minutes) Format: [hh.mm]

English

F3 oFF	CLoCK	on	**Time display in standby mode** on or off: **on**: If the system for more than 5 seconds remains in standby mode, the time will be displayed automatically
		oFF*****	**oFF***: No time is displayed
	bk	on	**Display background illumination** **on**: Background illumination always on
		Auto*****	**Auto***: Background illumination. switches on if any button is pressed,
		oFF	**oFF**: Background illumination always off
	oFF	0	**Automatic switching-off of the weighing system after x minutes:** Autom. switching-off disabled
		3	after 3 minutes
		5	after 5 minutes
		15	after 15 minutes
		30	after 30 minutes
F4 Prt	0		**Printer settings see chap. 8:** Continuous printing output
	1		Print format 1
	2		Print format 2
	3		Print format 3
	4		Print format 4
	5		Print format 5
ProG	Pn		**Password Input:** Press    subsequently.

English

P1 rEF	AZ 0	0	not documented
		0.5 d	
		1d	
		2d	
		4d	
	0AUt0	0%	not documented
		2%	
		5%	
		10%	
		20%	
	0rAnG	2%	not documented
		4%	
		10%	
		20%	
		50%	
		100%	
	SPEEd	7.5	not documented
		15	
		30	
		60	
P2 CAL	deCI		not documented
	InC		not documented
	CAP		not documented
	CAL		**Adjustment process**
	Count		not documented
	Gra		not documented

* default setting

10 Service, maintenance, disposal

10.1 Clean

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.

10.2 Service, maintenance

The same maintenance guidelines apply to the chassis of the mobile weighing system as those for simple manual pallet trucks. Experience has taught us that the integrated weighing system continues to function even if the chassis was damaged by overloading.

General rules:

- ⇨ As the steering wheels are mounted at the front, it is better to pull rather than push the manual pallet truck.
- ⇨ If the lifting device is not used, the manual lever should be left in centre position. This prolongs the life span of the seals.
- ⇨ To prevent damages to the electronic system and weighing cells it is necessary that welding work on the entire weighing system is carried out exclusively by technical specialists.
- ⇨ The bearings of the wheels (with the exception of polyurethane) as well as the joints in the load roller section should be regularly cleaned and greased.

10.3 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.

11 Error messages

Error message	Possible cause	Remedy
-----	• Weighing range exceeded	• To unload the weighing system
Err 1	• Wrong input date	• Format: Use format [JJ:MM:TT]
Err 2	• Wrong input of time [hh.mm]	• Format: Use format [hh:mm]
Err 4	• System out of zero range during switching-on or by pressing the →0← button	• Unload weighing system and tare again using TARE.
Err 6	• Internal A/D value outside the normal range	• To unload the weighing system • Check connectors

If the error message appears repeatedly, please contact your retailer.

English

12 Instant help

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

Help:

Fault	**Possible cause**
The displayed weight does not glow.	• Weighing system is not switched on. • Rechargeable battery empty
The displayed weight is permanently changing	• Draught/air movement
-	• Sites with vibration. • Loading fork is in contact with foreign matter. • Electromagnetic fields / static charging (choose different location/switch off interfering device if possible)
The weighing value is obviously wrong	• The display of the balance is not at zero • 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 weighing system off and then on again. If the error message remains inform manufacturer.