

## Scales to meet Pre-packaging legislation

FKTF

82

Intuitive touchscreen bench scale with extensive statistics functionality for sample control, in accordance with pre-packaging legislation

### Pre-packaging legislation

For scales which are intended for use with pre-packaged products, § 22 of the pre-packaging legislation is applicable. It says that:

(1) Pre-packed goods which are labelled by weight or volume and with the same nominal contents may only be produced commercially in such way that the content at the point of manufacture

- a. does not, on average, remain below the nominal content and
- b. does not exceed the values specified in clause 3 for the negative deviation from the nominal content.

(2) Pre-packed goods labelled by weight or volume and with the same nominal contents may be treated commercially within the scope of this ordinance, if the content at the point of manufacture

- a. does not, on average, remain below the nominal content and
- b. does not exceed the values specified in clause 3 for the negative deviation from the nominal content.

(3) The permitted negative deviations are:

Nominal contents Q <sub>N</sub> in g or ml	Permitted negative deviation	
	in % of Q <sub>N</sub>	in g or ml
5 to 50	9	-
50 to 100	-	4.5
100 to 200	4.5	-
200 to 300	-	9
300 to 500	3	-
500 to 1.000	-	15
1.000 to 10.000	1.5	-

When using this table, the values calculated in weight or volume units for the permitted negative deviation, given as a percentage, are rounded to the nearest 0.1 gram or 0.1 millilitre. Negative deviations may be exceeded by a maximum of 2 percent of the pre-packed goods.

(4) Pre-packed goods are labelled by weight or volume and with the same nominal contents may only be put on the market commercially for the first time, if the negative deviation from the nominal content does not exceed twice the values specified in the table of clause 3.

These rules give the manufacturers of pre-packed products clear guidelines for production control and give the consumer reassurance that the actual content of such products is consistent with the information printed on the goods by the manufacturer.

Pre-packed products, which are produced and tested in accordance with the pre-packaging legislation, generally carry this marking on their label: €

Scales which are to be used for the control of pre-packed goods must come with type approval as well as verification.

The selection of the non-automatic scale is based, on the hand, on to the required maximum load, as well as on largest permitted verification value [e] for the respective nominal contents:

Nominal contents Q <sub>N</sub> of the pre-packed goods	largest permitted Verification Value [e]
≤ 10 g (ml)	0.1 g
from 10 g (ml) to ≤ 50 g (ml)	0.2 g
from 50 g (ml) to ≤ 150 g (ml)	0.5 g
from 150 g (ml) to ≤ 500 g (ml)	1.0 g
from 500 g (ml) to ≤ 2.5 kg (l)	2.0 g
2.5 kg (l) and more	5.0 g
from 10 kg (l) to ≤ 15 kg (l)	10 g
from 15 kg (l) to ≤ 25 kg (l)	20 g
from 25 kg (l) to ≤ 100 kg (l)	50 g

Finally, it is to be observed that for scales used for pre-packed goods control, in many European countries the re-verification intervals are shorter than for verified scales used in standard applications, usually one year.

Source: 76 / 211 / EEC

Your KERN product specialist will be happy to help:



**Sven Göggel**

Product specialist Scales to meet  
Pre-packaging legislation

Tel. +49 [0] 7433 9933- 189

Fax +49 [0] 7433 9933- 195

goeggel@kern-sohn.com

### Quick-Finder Scales to meet Pre-packaging legislation

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	RS 232	BATT
0,5 g	3 kg	FKTF 3K0.5LM	1050,-	82	1	○	●	●	●	●
1 g	6 kg	FKTF 6K1LM	1050,-	82	1	○	●	●	●	●
2 g	12 kg	FKTF 12K2LM	1050,-	82	1	○	●	●	●	●
5 g	30 kg	FKTF 30K5LM	1050,-	82	1	○	●	●	●	●
10 g	60 kg	FKTF 60K10LM	1050,-	82	1	○	●	●	●	●

For an explanation on the pictos, see the front flap

● = Standard      ○ = Option



08

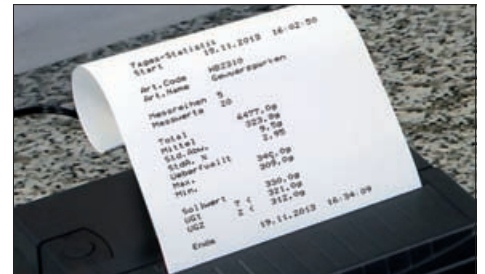
Intuitive touchscreen bench scale with extensive statistics functionality for sample control, in accordance with pre-packaging legislation



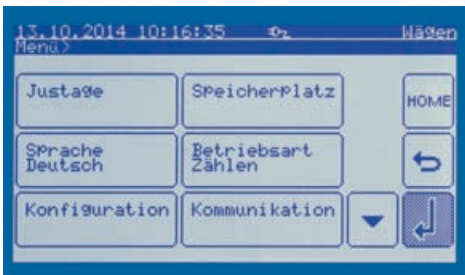
**Wide range of options for sample control** such as, e.g., sample checking and analysis of with an average tare value without destroying the sample etc.



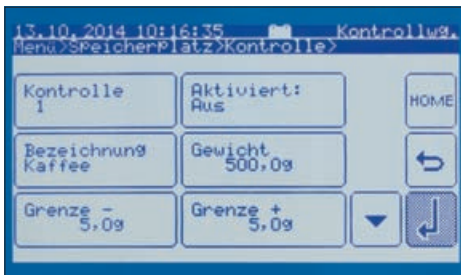
... or sample control which will lead to sample destruction



Printout of daily and weekly statistics from up to 45 series of measurements



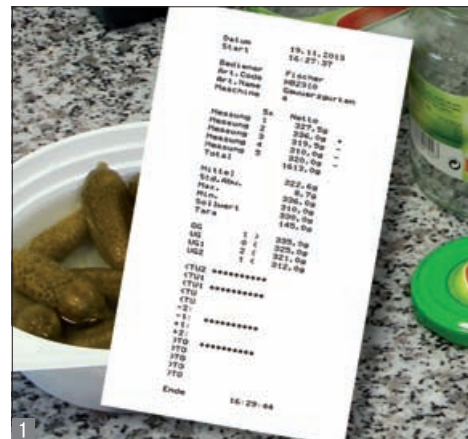
**Clear menu structure with plain text labelled keys and touch-sensitive display**  
The menu and processes are self-explanatory. This reduces training times, avoids operating errors and in this way, ensures more efficient functionality



**400 item memories** for master data such as PRE-TARE (packaging weight), free limit values, user name, machine number, batch description etc.



**Easy input of text and values**  
e.g. item descriptions, user name, packaging weights etc. using large keypad



## Features

- **Innovative touchscreen:** touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Comfortable entering** of article master data, free limit values, username etc. by a large-area keypad
- **Complete analysis** of TO, TU, TU1 and TU2 including values not meeting the limits
- Possible print-out of sample analysis and statistics
- Scale can be protected from unauthorized use by means of a **password**
- **Hook for underfloor weighing** of hanging loads, standard

## Technical data

- Backlit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Weighing plate dimensions, stainless steel, WxD 340x240 mm
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

## Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN FKB-A02, € 25,-
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 330,-
- **Suitable printers** see page 157 ff.

## Modes

- ① Weighing
- ② Statistical analysis according to pre-packaging legislation

## Functions

- Capacity display with ①
- PRE-TARE from the memory unit with ① and ②
- Input of item or batch description, operator etc. with ②
- Date/time with ① and ②
- 400 item memories with master data such as TU, TO, TU1, TU2 with ②
- Sampling tests according to weight and volume with ②
- GLP printout with ① and ②
- Analysis of samples with average tare value with ②
- Analysis of samples with individual tare first (in accordance with pre-packaging legislation) with ②
- Analysis of samples with differing tare values, followed by destructive analysis (in accordance with pre-packaging legislation) with ①
- Analysis of samples in accordance with the limits specified by pre-packaging legislation for TU1 + TU2 with ②
- Analysis of samples based on free limits for TO, TU, TU1 + TU2 with ②
- Daily statistics from 45 measurement series with ②
- Weekly statistics from 45 measurement series with ②

## STANDARD



## OPTION



## FACTORY



Model	Weighing range	Readout	Verification value	Minimum load	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
						M III KERN	€	DAkkS KERN	€
KERN FKTF 3K0.5LM	3	0,5	0,5	10	1050,-	950-127	55,-	963-127	72,-
KERN FKTF 6K1LM	6	1	1	20	1050,-	950-128	55,-	963-128	88,-
KERN FKTF 12K2LM	12	2	2	40	1050,-	950-128	55,-	963-128	88,-
KERN FKTF 30K5LM	30	5	5	100	1050,-	950-128	55,-	963-128	88,-
KERN FKTF 60K10LM	60	10	10	200	1050,-	950-129	93,-	963-129	105,-

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.