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## Operating Instructions Platforms

### KERN KTP\_V20

Version 2.2  
06/2009  
GB



KTP\_V20-BA-e-0922  
ME-Nr.: 72203964A

## 1 Safety precautions

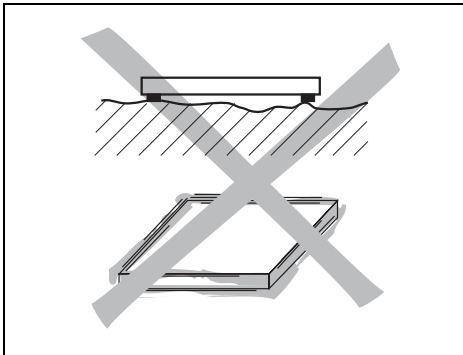
Product safety plays an important role at KERN & Sohn.

Non-observance of the following instructions can lead to damage to the weighing platform and/or injuries.

- ▲ Before using the weighing platform read these instructions. Store these instructions for future use.
- ▲ Take care when transporting or lifting heavy devices.
- ▲ Only qualified personnel may install and maintain the weighing platform.
- ▲ Disconnect the weighing terminal from the power supply before carrying out cleaning, installation and maintenance.
- ▲ The weighing platform must have stabilized to room temperature before the supply voltage is switched on.
- ▲ Do not use the weighing platform in hazardous environments.

## 2 Setting up the weighing platform

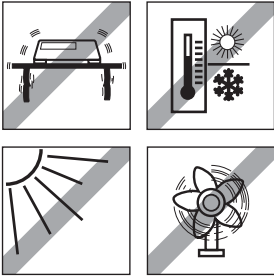
### 2.1 Selecting the site of installation



- ▲ The surface must be able to bear the weighing platform under maximum load at the points of support. At the same time it should be so stable that no vibrations arise during weighing. This is also to be observed when installing the weighing platform in conveyor and similar systems.
- ▲ If possible, vibrations from neighboring machines should not occur at the site of installation.

## 2.2 Ambient conditions

▲ Do not use the weighing platform in wet or corrosive environments. Never immerse electronic products into liquids.



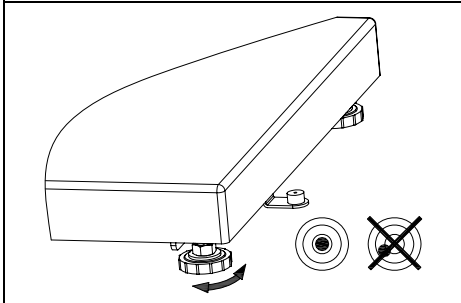
▲ Observe the following ambient conditions:

- No direct sunshine
- No strong draught
- No excessive temperature fluctuations
- Temperature range  $-10\text{ }^{\circ}\text{C}$  to  $+40\text{ }^{\circ}\text{C}$ .

## 2.3 Levelling

Only a weighing platform which is aligned exactly horizontally supplies exact weighing results.

The weighing platform has to be levelled during the initial installation and whenever its location is changed.



1. Turn the adjustable bases of the weighing platform until the air bubble of the spirit level is positioned in the inner circle.
2. Tighten the lock nuts of the adjustable bases.

## 2.4 Connecting to the weighing terminal

### MT1241, MT1260 weighing cells

Terminal	Color
SIG+	red
SIG-	white
EXC+	green
EXC-	black
SEN+	blue
SEN-	brown

The weighing platform KTP is designed for use with analog KERN & Sohn weighing terminals.

- Connect the weighing platform to the weighing terminal in accordance with the adjacent table.

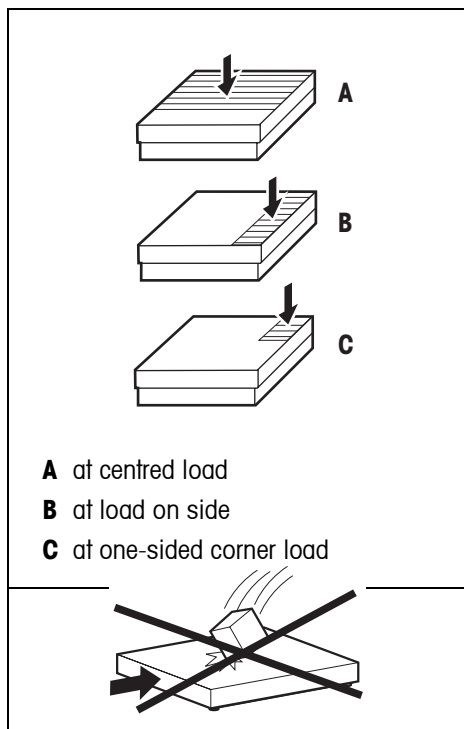
### MT1022 weighing cells

Terminal	Color
SIG+	red
SIG-	white
EXC+	green
EXC-	black

### 3 Operating limits

The weighing platform is designed so robustly that an occasional exceeding of the maximum weighing load does not lead to damage.

The static bearing capacity, i.e. the maximum permissible load, depends on the type of load carrying (position A – C). The maximum static bearing capacity may not be exceeded.



#### Maximum permissible load

Model	A	B	C
KTP 6V20NLM KTP 15V20NM	40 kg	30 kg	15 kg
KTP 30V20NM KTP 60V20NM	100 kg	70 kg	35 kg
KTP 60V20NLM KTP 150V20NM	200 kg	140 kg	75 kg
KTP 150V20NLM KTP 300V20NM	400 kg	300 kg	150 kg
KTP 6V20NM	40 kg	30 kg	15 kg

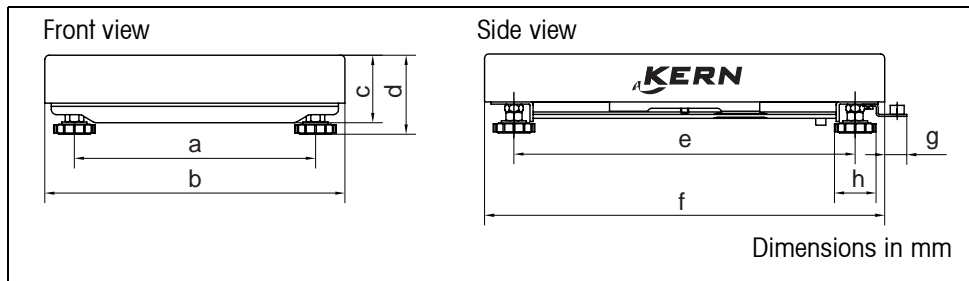
▲ Avoid falling loads, shock loads as well as impacts from the side.

### 4 Cleaning

- Clean the weighing platform with a soft cloth soaked with a mild cleaning agent.
- Take off the load panel and remove any dirt and foreign substances which may have collected underneath it. Do not use any hard objects to do so. Do not open the weighing platform.

## 5 Technical data, approvals and accessories

### 5.1 Dimensions



Model	a	b	c	d	e	f	g	h
KTP 6V20NLM/ KTP15V20NM	175	240	57	68.5	235	300	22	41
KTP 30V20NM KTP 60V20NM	235	300	66	77.5	335	400	22	41
KTP 60V20NLM KTP 150V20NM	335	400	66.5	79	435	500	22	41
KTP 150V20NLM KTP 300V20NM	435	500	105	115	586	650	28	41
KTP 6V20NM	165	228	57	68.5	177	228	22	41

### 5.2 Technical data of the weighing cell

Sensitivity	2 mV/V +/- 0.2 mV/V
Input resistance	410 Ω +/- 10 Ω
Output resistance	350 Ω +/- 4 Ω
Supply voltage	Recommended: 5–15 V DC/AC Maximum: 20 V DC/AC
OIML approval	Cell type MT1022: TC 5442 Cell type MT1241: TC 5382 Cell type MT1260: TC 5367

### 6.1 Disposal



In conformance with the European Directive 2002/96/EC on Waste Electrical and electronic Equipment (WEEE) this device may not be disposed of in domestic waste.

This also applies to countries outside the EU, per their specific requirements.

→ Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use),

the content of this regulation must also be related.

Thank you for your contribution to environmental protection.

## Preload, Deadload and Overload settings of KTP..V20..NM Platforms

Kern model	max. Preload* (kg) * = additional initial load	Deadload** (kg) **= initial load placed earlier	Center Overload Protection circa (kg)	Corner Overload Protection circa (kg)	Loadcell Capacity (kg)
KTP 6V20 NM	2.28	1.72	8.5	5	10
KTP 6V20 NLM	1.86	2.14	8.5	5	10
KTP 15V20 NM	2.86	2.14	23	12	30
KTP 30V20 NM	10.52	4.48	46	30	50
KTP 60V20 NM	35.52	4.48	85	50	100
KTP 60V20 NLM	30.98	9.02	85	50	100
KTP 150V20 NM	90.98	9.02	200	130	200
KTP 150V20 NLM	136.14	13.86	270	130	300
KTP 300V20 NM	186.14	13.86	550	230	500

Platform type KTP -	Platform dimension (mm)	Loadcell	TC	Class	Max	E <sub>max</sub>	E <sub>min</sub>	Y	V <sub>min</sub>	n	Deadload	T <sub>min</sub>	T <sub>max</sub>	Z	Cable-	P <sub>Lc</sub>
		Typ	Nr.		Preload	-1	-4	-2	-3	(kg)	-5	-6	oder	length		
					(kg)	(kg)	(g)	(g)					DR	(m)		
6V20NM	228x228	MT1022	5442	C3	see	10	0	5000	2	3000	see	-10	40	n <sub>Lc</sub>	2	0,7
6V20NLM	240x300	MT1022	5442	C3	above	10	0	5000	2	3000	above	-10	40	n <sub>Lc</sub>	2	0,7
15V20NM	240x300	MT1022	5442	C3		30	0	5000	10	3000		-10	40	n <sub>Lc</sub>	2	0,7
30V20NM	300x400	MT1241	5382	C3		50	0	6000	10	3000		-10	40	n <sub>Lc</sub>	2	0,7
60V20NM	300x400	MT1241	5382	C3		100	0	6000	20	3000		-10	40	n <sub>Lc</sub>	2	0,7
60V20NLM	400x500	MT1241	5382	C3		100	0	6000	20	3000		-10	40	n <sub>Lc</sub>	2	0,7
150V20NM	400x500	MT1241	5382	C3		200	0	6000	50	3000		-10	40	n <sub>Lc</sub>	2	0,7
150V20NLM	500x650	MT1260	5367	C3		300	0	6000	50	3000		-10	40	n <sub>Lc</sub>	2	0,7
300V20NM	500x650	MT1260	5367	C3		500	0	6000	100	3000		-10	40	n <sub>Lc</sub>	2	0,7