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Operating instructions Platforms

KERN KTP V40

Version 1.0
01/2010
GB



KTP V40-BA-e-1010
ME no.: 72237624



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Version 1.0 01/2010

Operating instructions platforms

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1 Safety instructions

Product safety has a high rating at KERN & Sohn.

Non-compliance with the following notes may cause damages at the platform and/or to injuries.

- ⇒ Prior to work with the platform read these instructions. Keep these instructions for later use.
- ⇒ Be careful when transporting or lifting heavy devices.
- ⇒ Only qualified personnel may install and make maintenance of the platform.
- ⇒ Prior to cleaning, installation and maintenance disconnect the platform from the voltage supply.
- ⇒ The platform must have been stabilised on ambient temperature before the power supply will be connected.
- ⇒ Do not use the platform in an explosive environment.

2 Placing the platforms

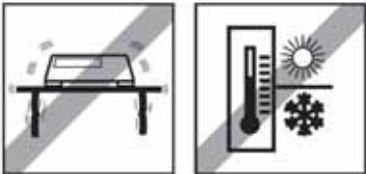
2.1 Select place of installation



⇒ The floor must be able to carry safely the weight of the maximally loaded platform at the resting points. At the same time it should be stable enough that during weighing work no vibrations will appear. This should also be observed for an integration of the platform in conveyor systems and alike.

⇒ On the installation site no vibrations should occur.

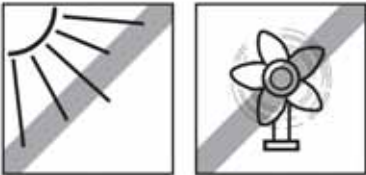
2.2 Ambient conditions



Observe the following environmental conditions:

⇒ No direct sunlight

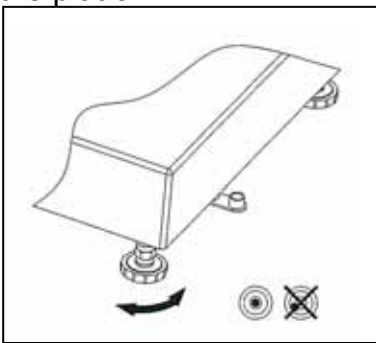
⇒ No excessive fluctuations in temperature



⇒ Temperature range: -10 °C to $+40\text{ °C}$

2.3 Levelling

Accurate weighing results require a platform with perfect horizontal alignment. During initial installation and after each change of work area it is necessary to level the platform .



⇒ Turn the adjustment feet of the platform until the air bubble of the bubble level is within the inner circle.

⇒ Tighten the locknuts of the adjustment feet.

2.4 Connection to weighing terminal

The platform is intended for the use with analogue weighing terminals.

1. Pull the platform cable through the cable screwing into the weighing terminal.
2. Connect the platform cable according to the following table on the 7-pole terminal strip.

Models Max. \leq 60 kg

Terminal	Colo(u)r
EXC +	blue
EXC -	black
SIG+	white
SIG-	red
SEN +	green
SEN -	grey
shield	yellow

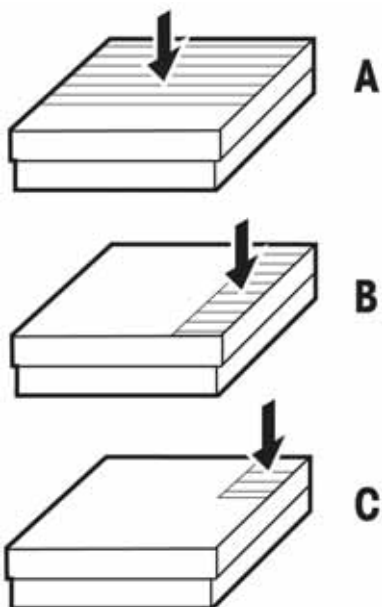
Models Max. \geq 150 kg

Terminal	Colo(u)r
EXC +	green
EXC -	black
SIG +	white
SIG -	red
SEN +	yellow
SEN -	blue
shield	yellow (long)

3 Operation limits

The platform is constructed so robustly that an occasional excess of the maximum weighing load does not cause any damage.

The static load capacity, i.e. the maximum admitted load depends on the type of the load carrier (position A – C). Do not exceed the maximum load bearing capacity.



Maximum admitted load

Model	A	B	C
KTP 15V40IPM	40 kg /80 lb	30 kg /60 lb	15 kg /30 lb
KTP 30V40IPM KTP 60V40IPM	100 kg /200 lb	70 kg /140 lb	35 kg /70 lb
KTP 60V40LIPM KTP 150V40IPM	200 kg /400 lb	140 kg /280 lb	75 kg /150 lb
KTP 150V40LIPM KTP 300V40IPM	400 kg /800 lb	300 kg /600 lb	150 kg /300 lb

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

A with central load

B with side load

C with single-sided corner load

4 Cleaning

- ⇒ Clean the platform using a soft cloth soaked with a mild cleaning agent.
- ⇒ Take off the weighing plate and remove dust and foreign matter which are accumulated under there. For this do not use any hard objects. Do not open platform.
- ⇒ Cleaning is possible by water jet and immersion.
Water temperature max. 85 °C
Water pressure 8'000 kPa
Minimum distance 40 cm

5 Technical Data

6 Technical Data weighing cell

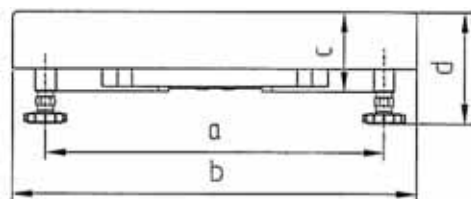
	Models Max. ≤ 60 kg	Models Max. ≥ 150 kg
Sensitivity	2 mV/V ± 0.2 mV/V	2 mV/V ± 0.2 mV/V
Input resistor	380 Ω ± 15 Ω	381 Ω ± 4 Ω
Output resistance	350 Ω ± 10 Ω	350 Ω ± 1 Ω
Feed	Recommended: 5 V DC/AC Maximum: 12 V DC/AC	Recommended: 5-15 V DC/AC Maximum: 20 V DC/AC
Admission	OIML	OIML
IP protection type	IP 68	IP 68

6.1 Technical Data platforms

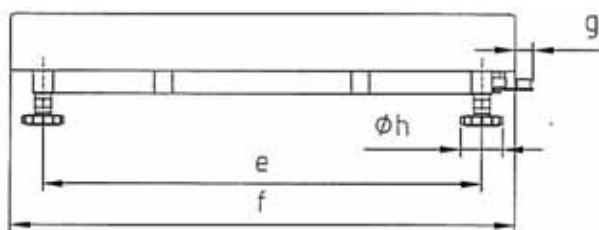
Model	Weighing range Max kg	Verification value e g	Min. load Min g	Preload additive kg	Cable length approx. m	Net weight approx. kg
KTP 15V40IPM	15	5	100	3	2.5	4.4
KTP 30V40IPM	30	10	200	6	2.5	8.2
KTP 60V40IPM	60	20	400	12	2.5	8.2
KTP 60V40LIPM	60	20	400	12	2.5	13.6
KTP 150V40IPM	150	50	1000	30	2.5	13.6
KTP 150V40LIPM	150	50	1000	30	2.5	24.4
KTP 300V40IPM	300	100	2000	60	2.5	24.4

6.2 Dimensions

Front view



Lateral view



Model Measures in mm	a	b	c	d	e)	f	g	h
KTP 15V40IPM	175	240	59	97	235	300	21	42
KTP 30V40IPM KTP 60V40IPM	235	300	76	108	335	400	18	42
KTP 60V40LIPM KTP 150V40IPM	335	400	108.5	134.5	435	500	18	42
KTP 150V40LIPM KTP 300V40IPM	435	500	117.5	139.5	586	650	17	42

7 Appendix

7.1 Remark on verified balances in EU countries



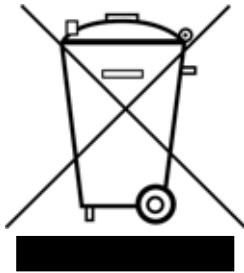
The balances verified in factory bear the ID mark shown here on the parcel label and a green „M“ sticker on the verification plate. They can be put in operation immediately.



The balances which are verified in two steps and don't have a green "M" on the verification plate, bear the shown ID mark on the parcel label. The second step of the verification must be carried out by the weights and measures inspector. The first step of verification has been carried out in factory. It includes all tests according to EN45501-8.2.2.

If according to national regulations in the respective states the validity period of the verification is limited, the owner-operator of such a balance is responsible himself for the reverification in time.

7.2 Disposal



In accordance with the requirements of the European directive 2002/96/EG about used electrical and electronic devices (WEEE), this device must not be eliminated with household rubbish.

This applies by analogy also for the countries outside EU according to the respectively valid regulations.

⇒ Please dispose of this product according to local regulations in a separated collection of electrical and electronic devices.

Should you have further questions please refer to the local authority or the dealer where you have bought this appliance.

When transferring this device to third parties (e.g. for private or for commercial/industrial use) inform accordingly about these regulations.

Many thanks for your contribution to environmental protection.

Preload, Deadload and Overload settings of KTP V40 platforms

Platform type	max. Preload (kg)	Deadload (kg)	Center Overload Protection circa (kg)	Corner Overload Protection circa (kg)	Loadcell Capacity (kg)
KTP 15V40IPM	2.65	32.35	23	12	50
KTP 30V40IPM	3.96	16.04	50	30	50
KTP 60V40IPM	3.96	36.04	100	50	100
KTP 60V40LIPM	6.67	33.33	100	55	100
KTP 150V40IPM	7.47	142.53	290	130	300
KTP 150V40LIPM	13.25	136.75	290	130	300
KTP 300V40IPM	13.25	186.75	600	280	500

Platform type	Platform dimension (mm)	Loadcell Typ	TC Nr.	Class	Max	E _{max}	E _{min}	Y	V _{min}	n	Dead-load	T _{min}	T _{max}	Z	Cable-	P _{Lc}
					Preload	-1	-4		-2	-3	(kg)	-5	-6	oder	length	
					(kg)	(kg)	(g)		(g)					DR	(m)	
KTP 15V40IPM	240x300	SLP835	D09-06.20	C3	see	50	0	11000	4.5	3000	see	-10	40	n _{LC}	2.5	0,7
KTP 30V40IPM	300x400	SLP835	D09-06.20	C3	above	50	0	11000	4.5	3000	above	-10	40	n _{LC}	2.5	0,7
KTP 60V40IPM	300x400	SLP835	D09-06.20	C3		100	0	11000	9	3000		-10	40	n _{LC}	2.5	0,7
KTP 60V40LIPM	400x500	SLP835	D09-06.20	C3		100	0	11000	9	3000		-10	40	n _{LC}	2.5	0,7
KTP 150V40IPM	400x500	SSH	7648	C3		300	0	7350	41	3000		-10	40	n _{LC}	2.5	0,7
KTP 150V40LIPM	500x650	SSH	7648	C3		300	0	7350	41	3000		-10	40	n _{LC}	2.5	0,7
KTP 300V40IPM	500x650	SSH	7648	C3		500	0	7350	68	3000		-10	40	n _{LC}	2.5	0,7