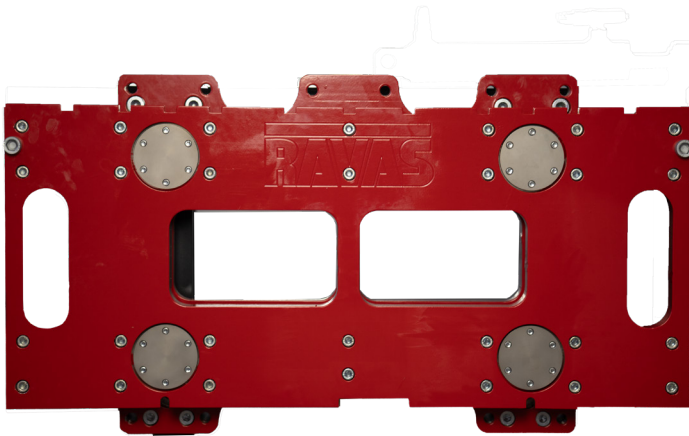




USER MANUAL

RAVAS iCP Performance

Intelligent Carriage Plate with RAVAS
RedBox and Weigh-in-Motion technology



We would like to inform you about the fact that this RAVAS product is 100% recyclable, provided that parts are being processed and disposed of in the right manner.

More information can be found on our website: www.ravas.com

Rev. 20260317

Printing/Typographical errors and model changes reserved.



PLEASE RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

If you have any queries concerning the duration and terms of the RAVAS warranty, please contact your supplier or check our General Sales and Service Conditions, which are available on request.

The manufacturer accepts no liability for any damage or injury caused by failure to follow these instructions, or from negligent operation or assembly, even if this is not expressly stated in this instruction manual.

In light of our policy of continuous improvement, it is possible that details of the product may differ from those described in this manual. For this reason, these instructions should only be considered as guidelines for the installation of the relevant product. This manual has been compiled with all due care, but the manufacturer cannot be held responsible for any consequences of errors. All rights are reserved and no part of this manual may be reproduced in any way.

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1. Introduction

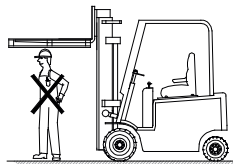
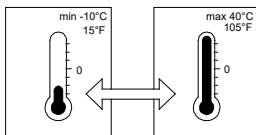
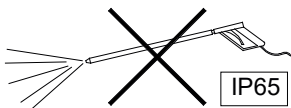
This manual describes the use of the **RAVAS iCP Performance**. Read this manual carefully. The installer must be informed of the contents of this manual. Always do things in the correct order. This manual should be kept on a safe and dry place. In case of damage or loss the user may request a new copy of the manual from RAVAS.

2. Warning & Safety measures

When using the **RAVAS iCP Performance**, please observe the instructions and guidelines contained in this manual carefully. Always perform each step in the right sequence. If any of the instructions is not clear, please contact RAVAS.



- All safety regulations that apply to the truck remain valid and unchanged;
- No weighing operations are allowed if any person or object is in the vicinity; around, under or close to the load;
- Any modifications done to the system must be approved in writing by the supplier, prior to any work being completed;
- It is the sole responsibility of the purchaser to train their own employees in the proper use and maintenance of this equipment;
- Do not operate this unit unless you have been fully trained in its capabilities;
- Check the accuracy of the scale on a regular basis to prevent faulty readings;
- Only trained and authorized personnel are allowed to service the scale;
- Always follow the operating, maintenance and repair instructions of this truck and ask the supplier when in doubt;
- RAVAS is not responsible for errors that occur due to incorrect weightings or inaccurate scales.
- In case of fire, harmful gases may be released (ABS).



Should you have any further questions after reading this manual then you can contact us at:

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5301 KM Zaltbommel
The Netherlands
Changes reserved.

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Internet: www.ravas.com
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3. Loss of lifting capacity

	iCP class frontplate dimension	Lost load center	Horizontal center of gravity	Vertical center of gravity	Weight
Standard	FEM2 (927 mm) Capacity 2500 kg	103 mm	49 mm	241 mm	141 kg
Standard + side shifter	FEM2 (927 mm) Capacity 2500 kg	130 mm	44 mm	239 mm	149 kg
Standard + fork positioner	FEM2 (980 mm) Capacity 2500 kg	103 mm	30 mm	202 mm	173 kg
Standard + side shifter + fork positioner	FEM2 (9807 mm) Capacity 2500 kg	130 mm	22 mm	202 mm	192 kg

Important: The fork lift truck dealer must use the above data to recalculate the lifting capacity. In addition, according to directive 2006/42/EG, the fork lift truck dealer must adjust the ID plate on the fork lift with revised information about lifting capacity and load center.

Please note: In our factory, RAVAS sets the indicator to zero as standard with forks with a total weight of ± 80 kg. The customer himself can reset this zero value within a range of maximum 2% of the total capacity of the weighing system. If the customer uses forks and/or attachments with a weight that falls outside this range, the customer must inform RAVAS of this at the latest when placing the order and provide the weight of his forks and/or attachments.

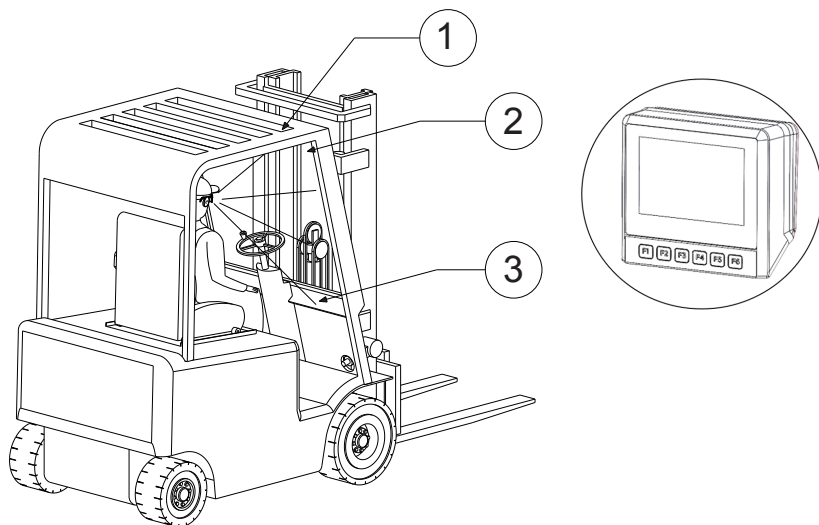
4. System setup

The RAVAS iCP Performance is a static and fully automatic weighing system. The system is powered by the forklift truck. Depending on the installation of the system to truck power it is either always on or on when forklift truck contact is switched on. After power on, you need to keep the forks level and make sure the system displays zero kg or lb. To zero the system press the zero button as described in chapter “4.4.1 Key functions”.

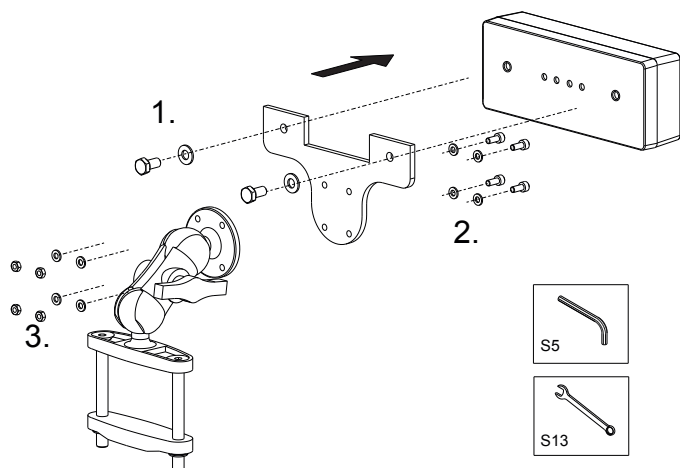
4.1 Installing the indicator

Find a suitable position for the indicator where it is easy to reach and read:

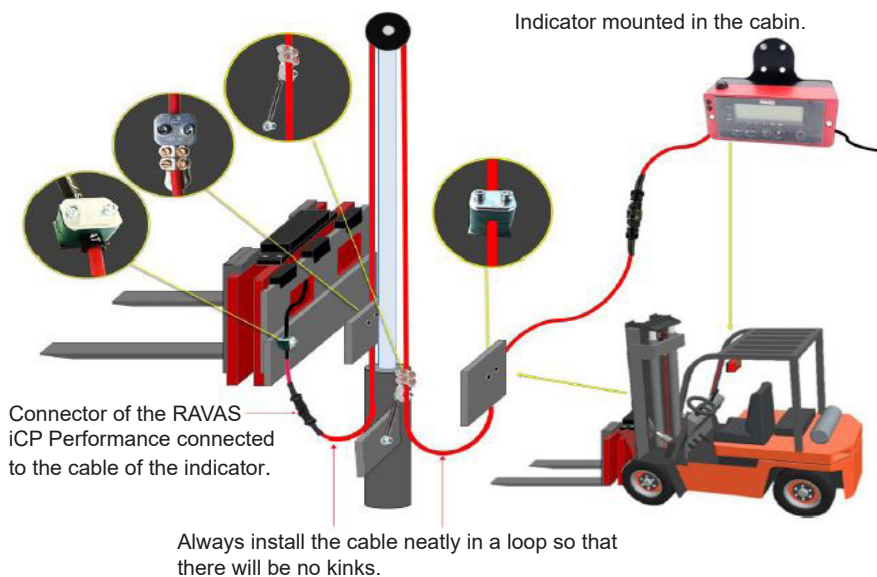
1. at the cabin's roof
2. on the right side of the cabin, mounted onto a side-rail
3. on the dashboard



Installation of the indicator bracket and support.

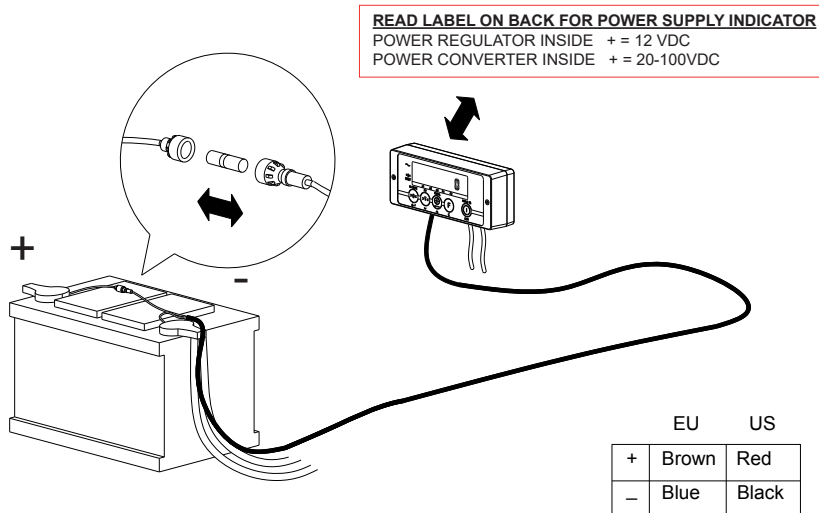


4.2 Mast cabling (example)



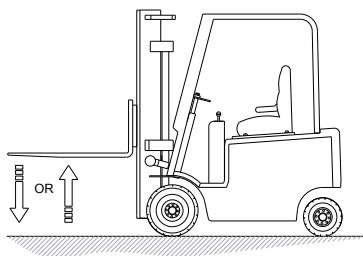
4.3 Indicator power supply from forklift truck battery

Only possible if indicator is equipped with an integrated voltage converter or voltage stabilizer.



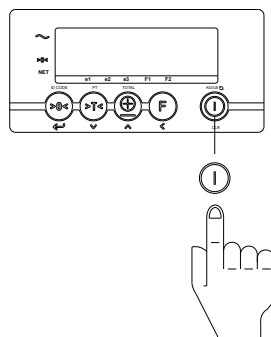
4.4 Connecting and switching on the RAVAS iCP Performance

1



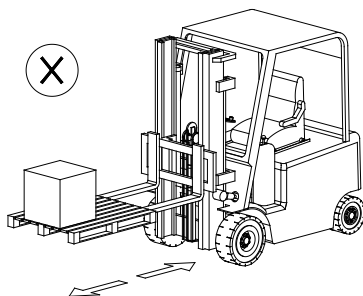
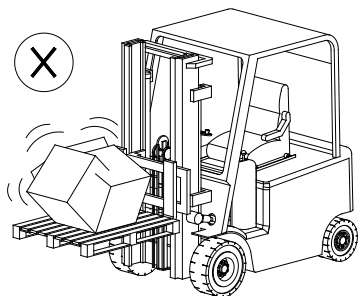
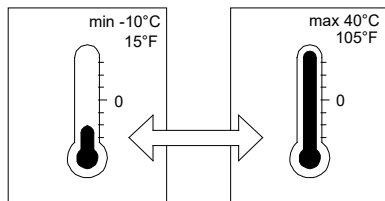
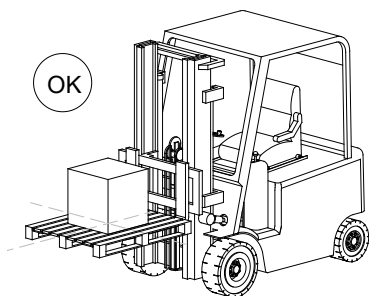
Turn on the forklift truck, the display will start up closely after.

2



5. Use

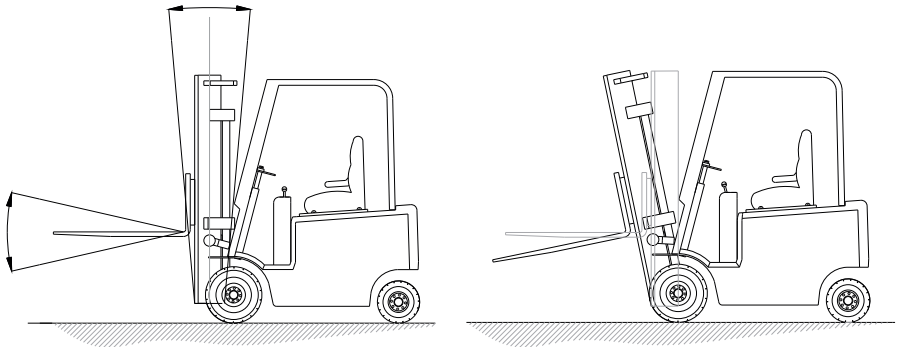
5.1 Static weighing



5.2 Full automatic weighing (Weigh-in-Motion)

During operation there will be no need for manual actions to save measurements. Once a load is picked up and above 20kg, the weighing system will calculate the weight and save it without the operator having to press a button. The scale will automatically reset itself once the weight on the forks has dropped below 20kg.

5.3 Level correction



During weighing the fork angle has to remain in between -3 and $+3$ degrees to compensate for the fork angle. If the fork angle exceeds past the 3 degrees deviation, the system will stop calculating the weight and will continue the calculation when the forks are within boundaries again. A warning will be displayed indicating an out of level position.

5.4 Alibi Memory

The RedBox has the possibility of an alibi memory. The alibi memory will only be used when the weighing system is set for OIML or NTEP. If the weighing system is set for 'NONE' the alibi memory will remain unused.

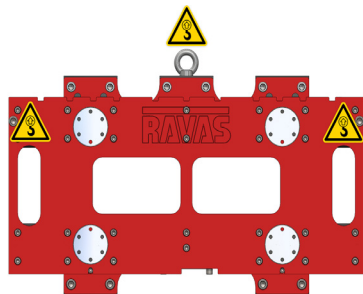
The RedBox stores every weighing in its alibi memory and assigns a unique number to it.

The data stored in the alibi memory are:

1. Date > this is the date in format dd/mm\yy (EU) or mm/dd\yy (US).
2. Time > this is the time in format hh:mm.
3. Gross weight > this number always consists of the positive or negative sign, 5 digits, a possible decimal point (as part of the 5 digits) and the unit (kg or lb).
For example: +0233.5kg or -00136.lb.
4. Net weight > this number always consists of the positive or negative sign, 5 digits, a possible decimal point (as part of the 5 digits), the unit (kg or lb), and whether it was a calculated net or a measured net. For example: +0233.5kgC or -00136.lb_.
The 'C' stands for calculated and is sent along when a preset tare value was active. If there is no preset tare value active a blank (space) is put behind the kg (or lb).
5. Tare weight > this number always consists of the positive or negative sign, 5 digits, a possible decimal point (as part of the 5 digits), the unit (kg or lb), and whether it was a preset tare or a measured tare. For example: +0233.5kgP or -00136.lb_.
The 'P' stands for preset tare and is sent along when a preset tare value was active. If there is no preset tare value active a blank (space) is put behind the kg (or lb).
6. Alibi number > this is a 5 digit number which is generated by the RedBox. It will start at '00001' and increase with every weighing up to '99999'. When this number is reached it will start at '00001' again.

The alibi memory can contain 99999 weighings. The alibi memory works with FIFO (first in first out). When it reaches '99999' the oldest data will be first overwritten.

5.5 Safe lifting



The product shall only be lifted using the designated lifting points identified by the yellow warning labels with the lifting symbol. Only the centrally located lifting eye(s) mounted on top of the frame are approved for hoisting. No other part of the unit is designed or rated for lifting. Lifting operations must be performed in accordance with applicable local, national, and international regulations, including but not limited to EU Machinery Directive 2006/42/EC (and its successor Regulation (EU) 2023/1230), OSHA requirements, and ASME B30 standards, as applicable.

Under no circumstances shall the product be lifted by bolts, fasteners, cover plates, inspection caps, frame openings, or any non-designated structural component. These parts are not load-rated lifting points and may fail if subjected to lifting forces. Use of unauthorized lifting locations may result in structural damage, loss of load control, equipment failure, serious personal injury, or death.

Prior to lifting, verify the total mass of the product as stated on the nameplate or technical documentation. Ensure that all lifting devices and accessories (including slings, chains, shackles, and hoists) are certified, properly inspected, and rated for the intended load in accordance with applicable standards. The lifting arrangement must ensure that the load remains stable and balanced throughout the entire lifting operation.

Lifting operations shall be carried out only by trained and authorized personnel using appropriate personal protective equipment (PPE) as required by risk assessment and applicable regulations. Establish and maintain a clear exclusion zone beneath and around the suspended load. Never stand, pass, or work under a suspended load. Failure to comply with these instructions may result in serious injury, death, or substantial property damage.

5.6 The indicator

See indicator manual.