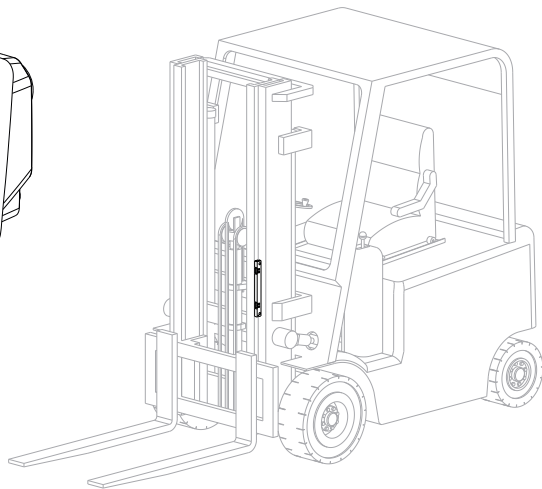
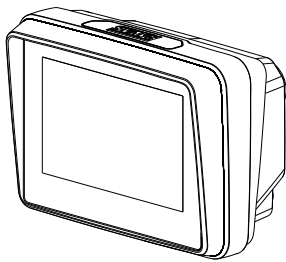




INSTALLATION MANUAL

RAVAS RCS Hy-Q-52



Rev. 20250114
Printing/Typographical errors and model changes reserved.

PLEASE RETAIN THESE ASSEMBLY INSTRUCTIONS FOR FUTURE REFERENCE

If you have any queries concerning the duration and terms of the guarantee, please contact your supplier. We would also refer you to our General Sale and Supply 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 treated 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.

We would like to inform you about the fact that this RAVAS product is 100% recyclable on the basis that the parts are processed and disposed off in the right manner.

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



Table of Contents

1. Introduction	4
2. Warning & Safety measures	4
3. Before the installation	5
3.1 Capacity of the forklift truck	5
3.2 Maximum pressure in the hydraulic system	5
3.3 Battery voltage of the forklift truck	5
3.4 Making the hydraulic system pressure free	5
3.5 The condition of mechanical components of the forklift truck	6
4. Installation	7
4.1 Hydraulics: Installing the T-piece	7
4.2 Hydraulics: Mounting the oil pressure sensor	10
4.3 Mechanics: Installing the position switch holder	11
4.3.a Mechanics: placing stickers to mark reference height	13
4.4 Mechanics: Installing the indicator	14
4.5 Electronics: Mounting the cables	15
4.6 Electronics: Wiring diagram indicator	16
4.7 Electronics: Connecting the power supply cable	18
4.8 Remove any air from the hydraulic system	18
5. Calibration	19
5.1 Preparing for calibration	19
5.2 Bringing the forklift truck to operating temperature	20
5.3 Operating key functions of indicator	21
5.4 Display functions	21
5.5 Start calibration procedure: first go into the service menu	22
5.6 Set the scale capacity	23
5.7 Change unit label	24
5.8 Set the overload value	24
5.9 Setting the service date	25
5.10 Go into the calibration menu and perform a zero calibration	26
5.11 Execute weight calibration: slow & fast speed	29
5.12 Set zero	30
5.13 Delete a calibration point	30
6. Parameter settings	31
6.1 Remarks	31
6.2 Parameter settings	32
7. RDC - data transfer	34

1. Introduction

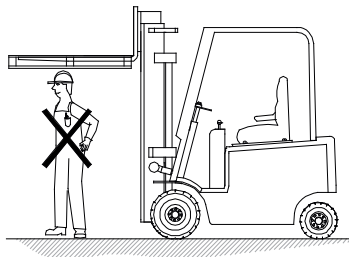
This manual describes the installation of the RAVAS RCS Hy-Q-52. Read this manual carefully. The installer must be informed of the contents of this manual. Follow the contents of the manual precisely. Always do things in the correct order. This manual should be kept in a dry and safe place. In case of damage or loss the user may request a new copy of the manual from RAVAS.

2. Warning & Safety measures

When installing the RAVAS RCS HY-Q-52, please carefully observe the instructions and guidelines contained in this manual. Always perform each step in sequence. If any of the instructions are not clear, please contact RAVAS.



- The installation of the RAVAS RCS Hy-Q-52 should only be performed by an acknowledged electro and hydraulic technical installer.
- Possible failures to the equipment must be communicated to your installer.
- The equipment should be checked annually by your installer.
- Always follow the safety measures concerning the forklift - or stacker truck accurately.



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

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Twinsburg, OH 44087

Phone number: +1 (330) 425-3092

www.ravasusa.com

Changes reserved

3. Before the installation

Before you start the installation, check the following points on the forklift truck:

3.1 Capacity of the forklift truck

The RAVAS RCS Hy-Q-52 can be installed on forklift trucks with a capacity of maximum 99 ton.

3.2 Maximum pressure in the hydraulic system

The RCS Hy-Q-52 will operate optimally at an oil pressure up to 350 bar.

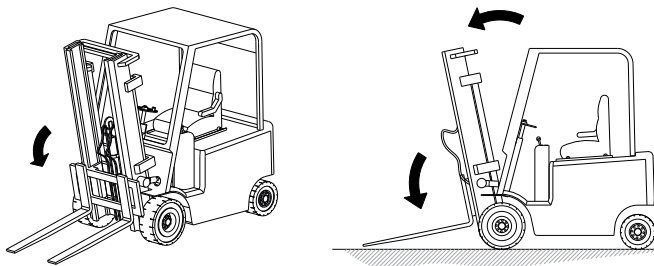
3.3 Battery voltage of the forklift truck

The most common voltages for forklift trucks are 12, 24, 48 and 80 VDC. The RCS Hy-Q-52 operates on 12 Vdc and always has a DC-DC power converter built in, which allows 9-100 V DC input.

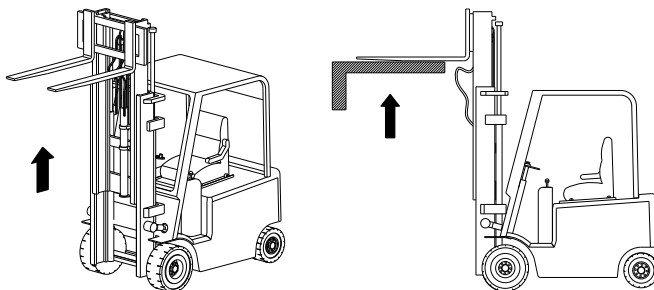
3.4 Making the hydraulic system pressure free

Before installation of the RAVAS RCS Hy-Q-52 the hydraulic system of the forklift truck must be pressure free. There are two ways to do this:

Option 1: Place the forks on the ground in their lowest position and make the hydraulic system pressure free, by tilting the mast forwards. Be sure the chain is slack!



Option 2: Lift the forks and position them on top of a supporting surface. Make the hydraulic system pressure free, by lowering the lifting cylinder into its lowest position. Be sure the chain is slack!

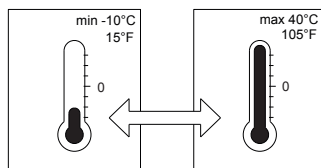
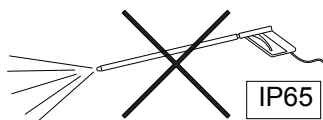
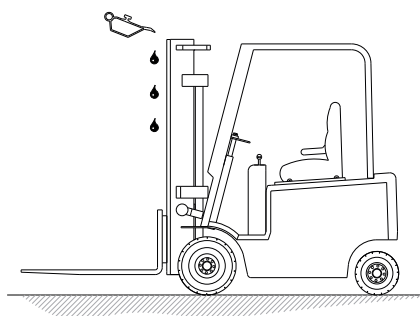
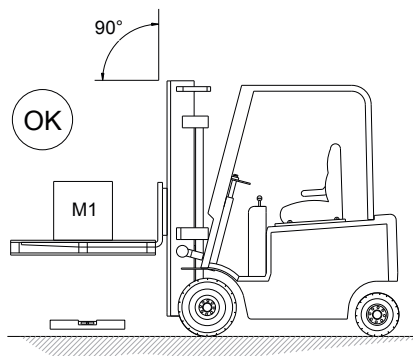


3.5 The condition of mechanical components of the forklift truck

Find a suitable position for the indicator:

After installation of the RAVAS RCS Hy-Q-52 system on the forklift truck, the weighing system is part of the truck. In particular the mechanical parts of the forklift truck, such as the mast, mast roles and bearings, will influence the accuracy of the weightings. For this reason it is important that these components are in good condition:

- no local wear in the mast of the forklift truck
- clean the system
- good lubrication of the mast and chains
- regular maintenance so that the condition of the system is constant
- when lifting and lowering the forks no whistling and cracking sounds from the mast



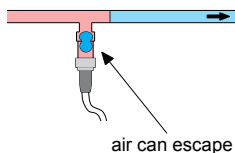
4. Installation

4.1 Hydraulics: Installing the T-piece

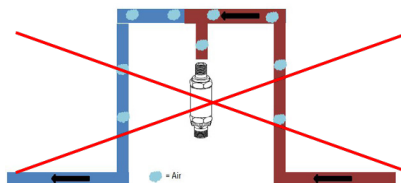
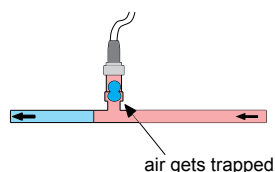
We recommend that the installation of the sensor in the hydraulic system of the forklift is performed by an authorized lift truck dealer.

- Ensure that there is no pressure on the main cylinder line.
- The sensor is mounted with a T-piece in the high-pressure hose, between the valves and the main lifting cylinder.
- The connection on the sensor is G $\frac{1}{4}$ " BSP male.
- Protect the cable from moving, sharp or warm parts with the supplied protective cover.
- Mount the T-piece so that the sensor and the cable connection are pointing downwards. This will prevent air getting into the sensor.

OK



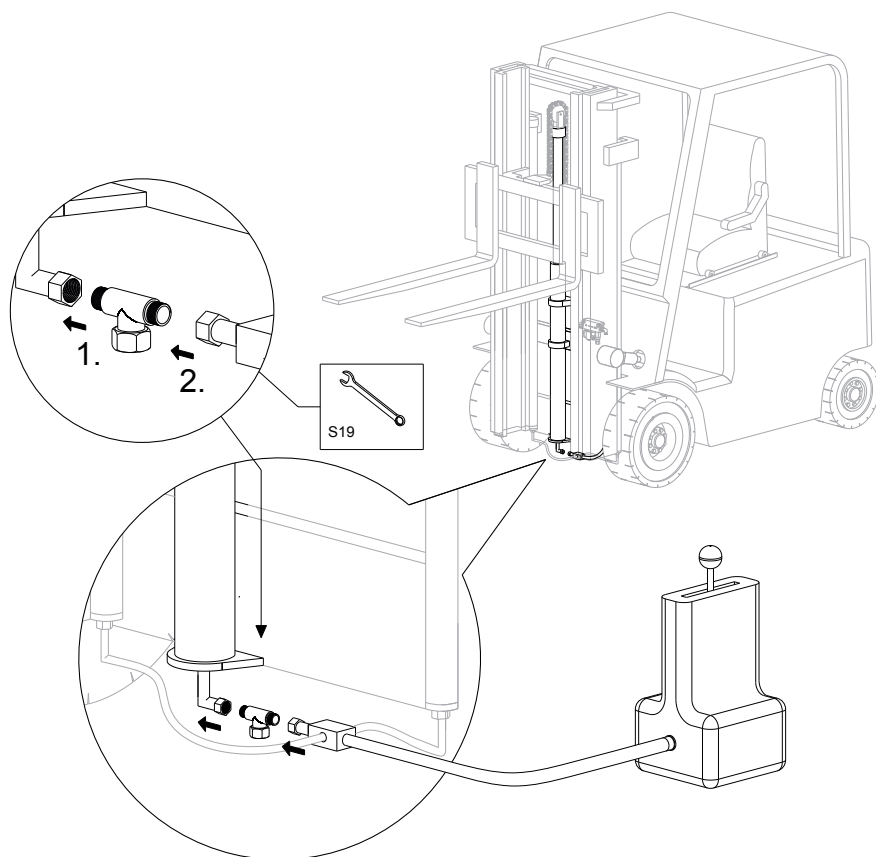
WRONG



Choose a place where you can mount the sensor:

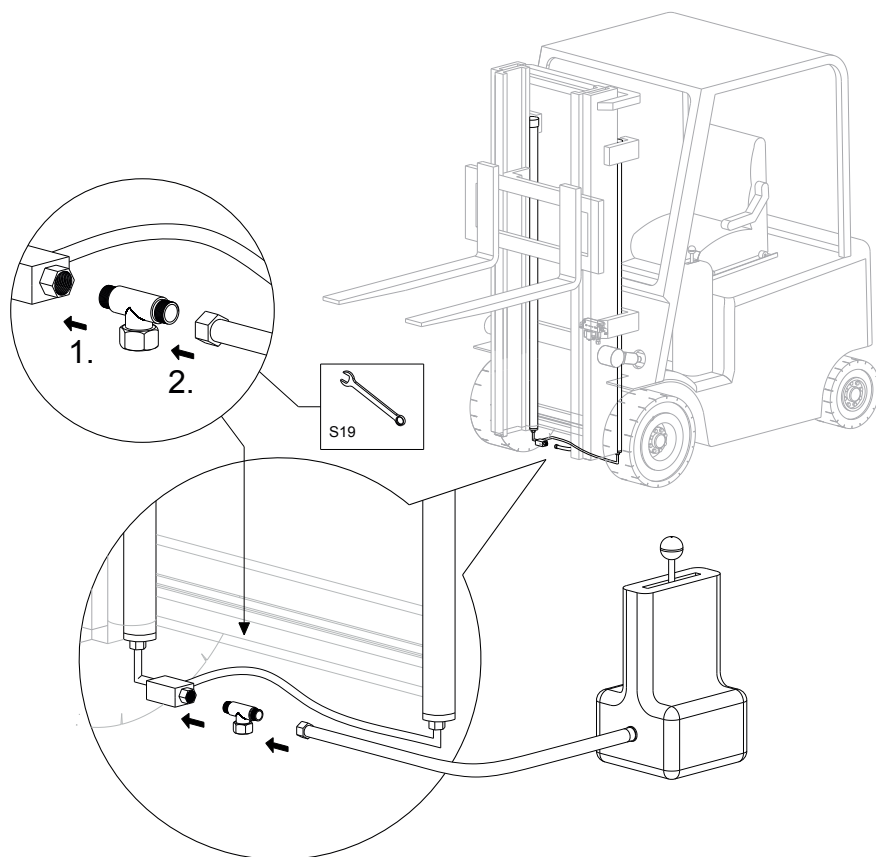
- Mount the sensor in the pressure hose that steers the main lifting cylinder. In most cases there is one cylinder which moves the carriage plate. The sensor is mounted as close to the cylinder as possible.
- If the pressure hose splits to multiple cylinders, the sensor has to be mounted before the split.
- Do not mount the sensor too close to the engine. Large differences in temperature can influence the accuracy of the system.
- If the truck is used intensively, a piece of pipe or hose of ± 50 cm can be mounted between the sensor and the T-piece. The sensor is sensitive to temperature differences. If the moving oil becomes warm, the standing oil in this pipe or hose will remain cool and the sensor will not be effected by temperature differences.
- Place the sensor close to the cylinder. There is often more room there and it is easier to reach.
- Choose, if possible, a place to mount the sensor where there are the least steering and safety valves between the sensor and the cylinder.

Type A: 1 central cylinder



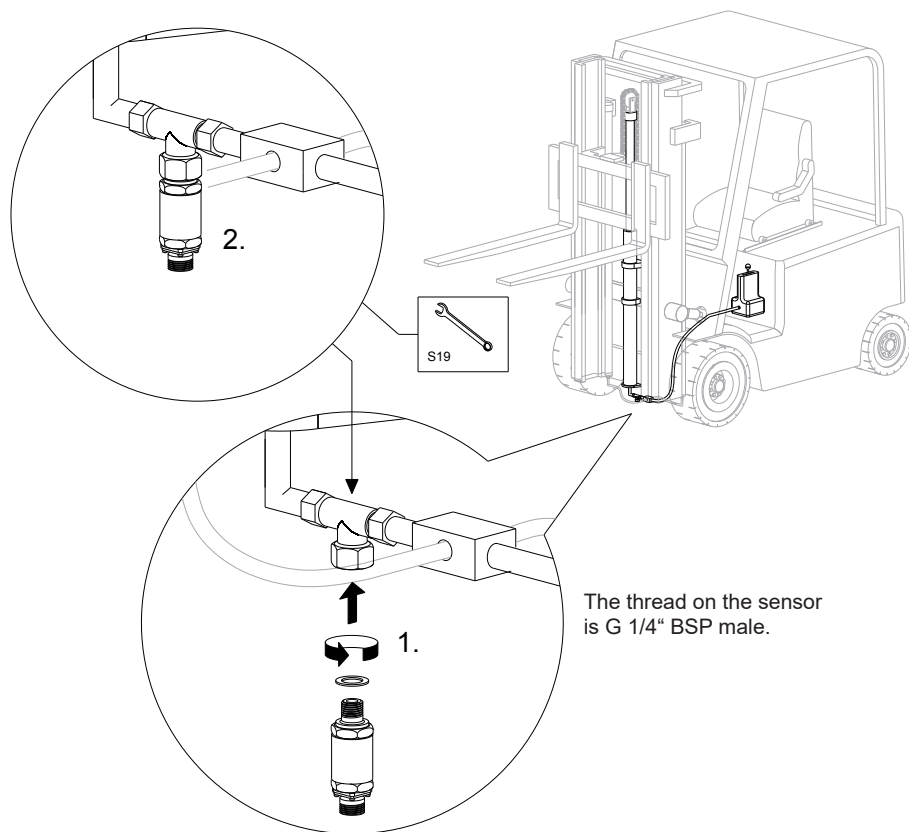
Mount the T-piece into the delivery line of the truck near the cylinder for the diversion of the pressure to the RAVAS RCS Hy-Q-52.

Type B: 2 cylinders on both sides



Mount the T-piece into the delivery line of the truck near the cylinder for the diversion of the pressure to the RAVAS RCS Hy-Q-52.

4.2 Hydraulics: Mounting the oil pressure sensor

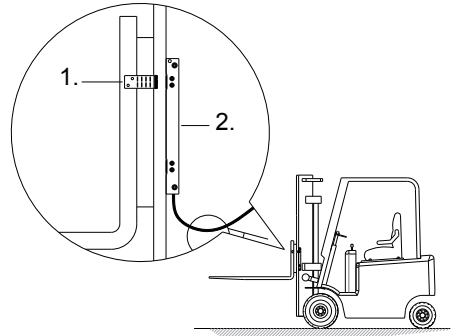


4.3 Mechanics: Installing the position switch holder

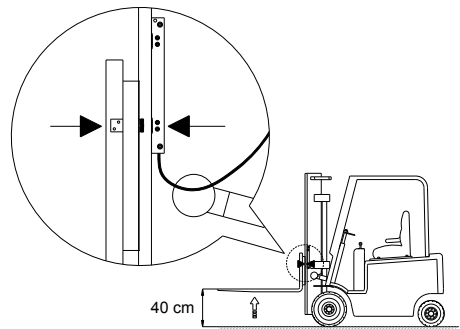
The position switch holder and magnet contain the following parts:

1. 1 magnet, to be installed on the carriage plate (moving part)
2. 1 profile with 2 reed switches inside, to be installed on the mast (fixed part)

The distance between the magnet and the switches should be in the range of 5-20mm.



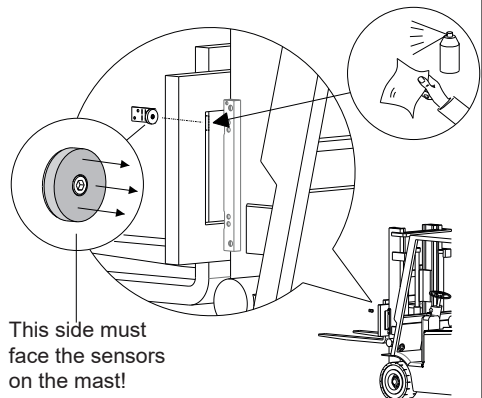
The magnet and lowest switch should face each other when the forks are about 40cm from the ground.



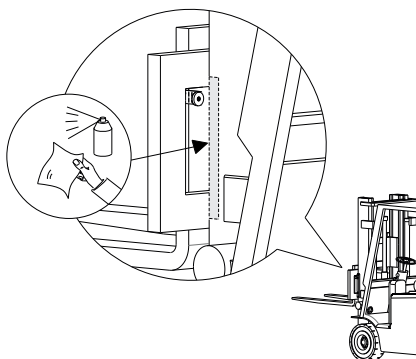
Place the magnet at a location that is free from obstacles all the way up and down the mast.

Decrease the area on the carriage plate where the magnet will be mounted.

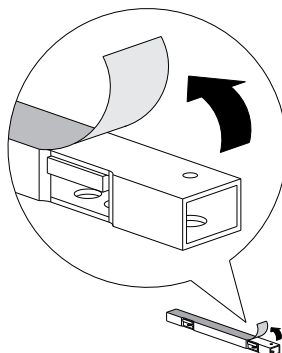
The magnet holder can be installed on the carriage plate with the self-adhesive tape or bolts.



Degrease the mast where the switches will be placed.

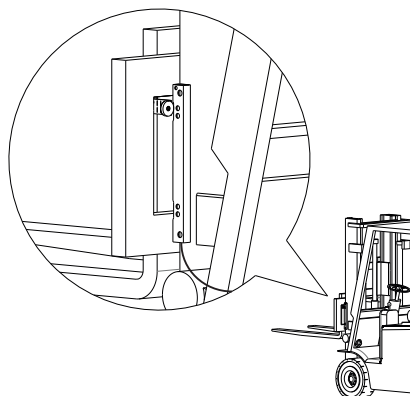


The holder with switches inside can be mounted on the mast with self-adhesive tape or bolts.

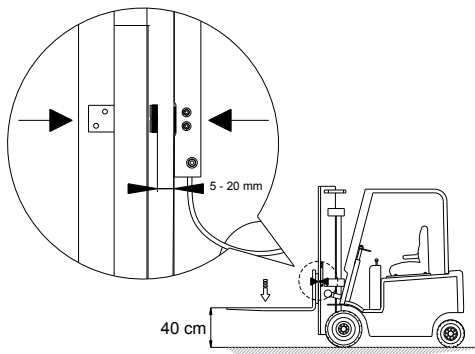


Mount the holder with switches on the outside of the mast.

Note: The cable outlet must be positioned downwards.

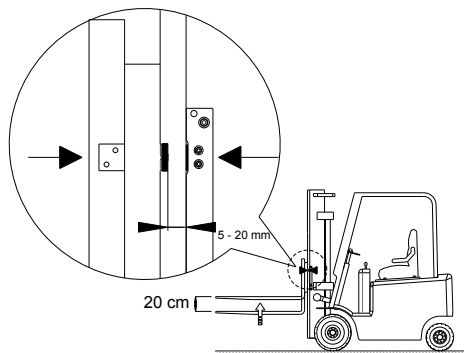


Align the lowest switch of the holder with the magnet; there should be 5-20mm clearance in between.



Lift the forks 20 cm, so the magnet is positioned in front of the upper switch.

Align the top switch with the magnet; there should be 5-20mm clearance in between and fix the holder.

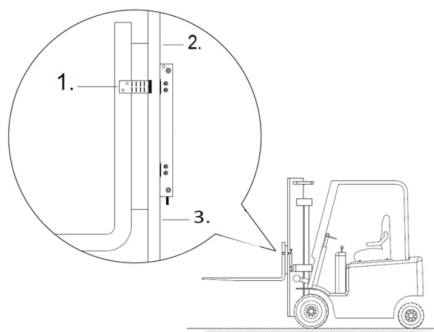


4.3.a Mechanics: placing stickers to mark the reference height - optional

Three yellow triangular stickers are supplied with this kit. Two of these stickers are placed on the mast and one on the carriage plate. The arrow stickers are used to mark the reference height.

Note:

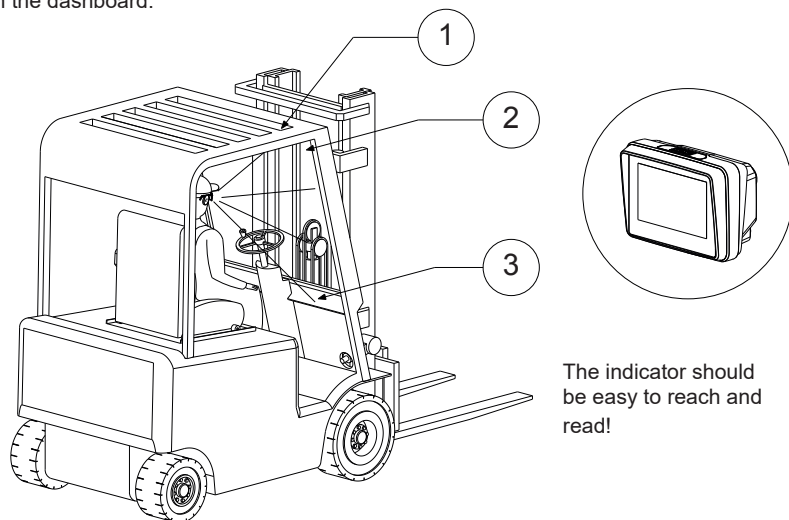
- Make sure the driver can see all three stickers;
- The sticker on the carriage plate must be placed in the proximity of the magnet (1);
- The top sticker on the mast must be placed 10cm above the beam with the switches (2);
- The bottom sticker must be placed 10cm below the beam with the switches (3).



4.4 Mechanics: Installing the indicator

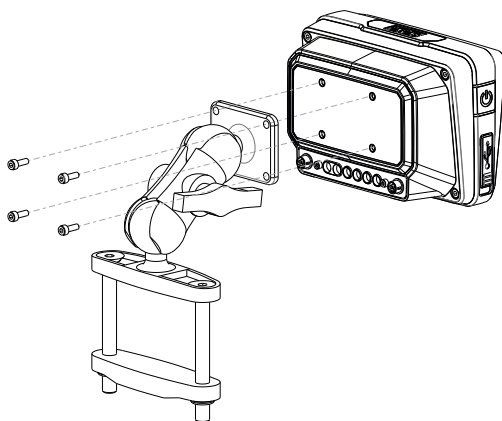
Position of the indicator:

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



The indicator should be easy to reach and read!

Installing the indicator



4.5 Electronics: Mounting the cables

Two cables should be mounted:

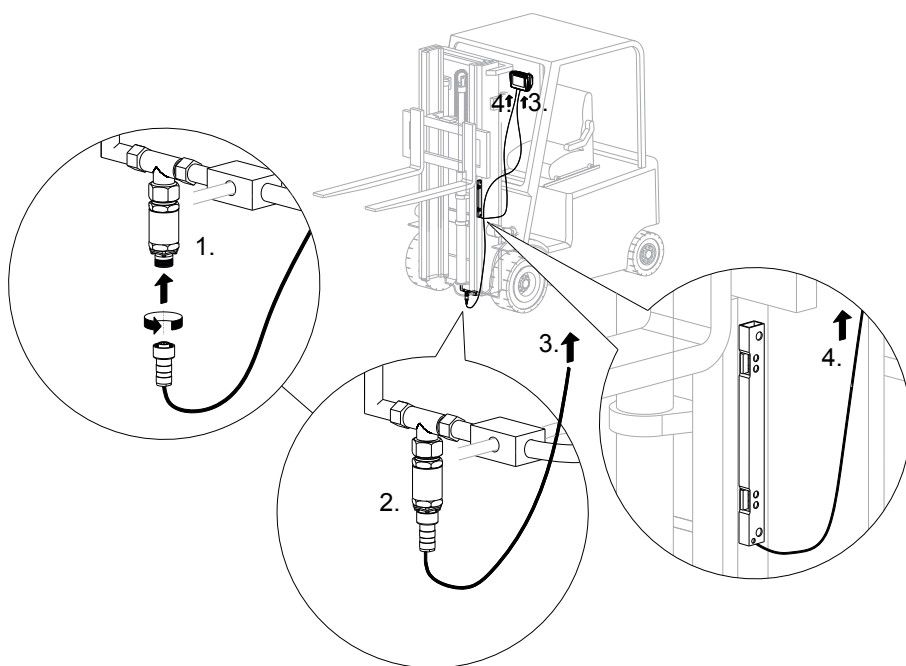
- cable for the oil pressure sensor
- cable for the position switches

Keep the cable out of sight as much as possible, this keeps the system tidy and it minimizes the possibility of damage to the cable.

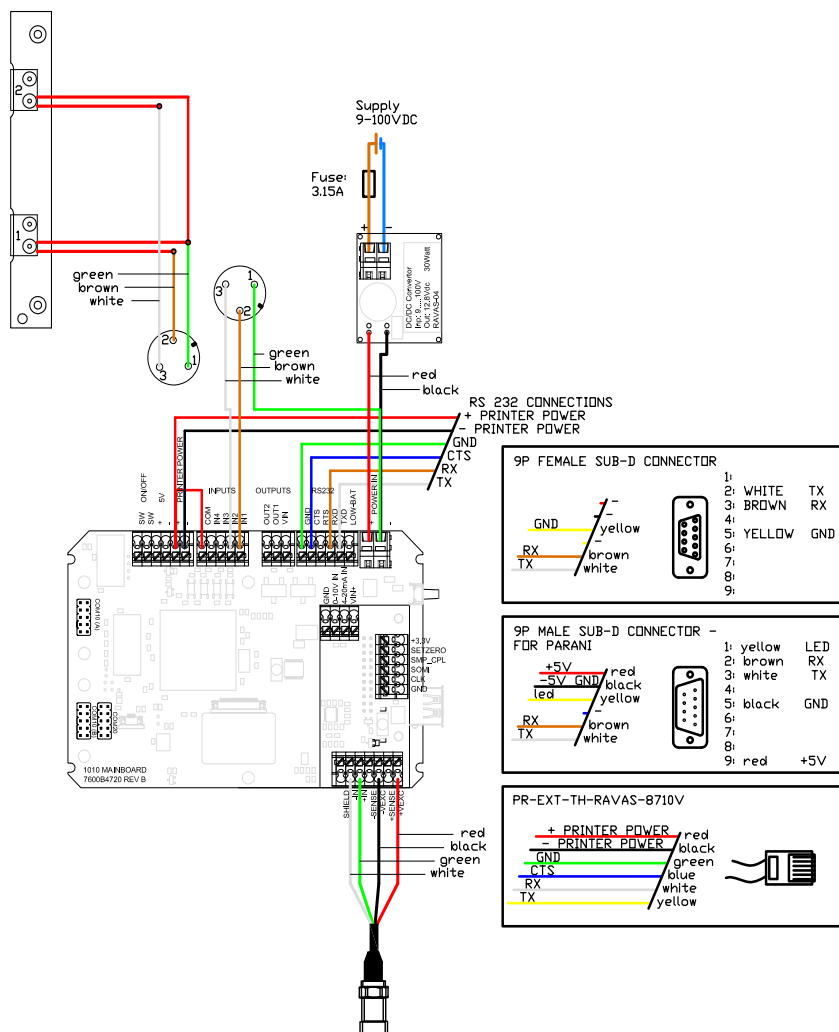
It may be necessary to thread the cable through small openings, openings through which the 18mm connector does not fit. In that case disconnect the cable at the indicator.

The system is supplied with a protective cover for the cable. This can be used when:

- the cable is near parts of the lift truck that become hot;
- the cable is mounted near moving parts.

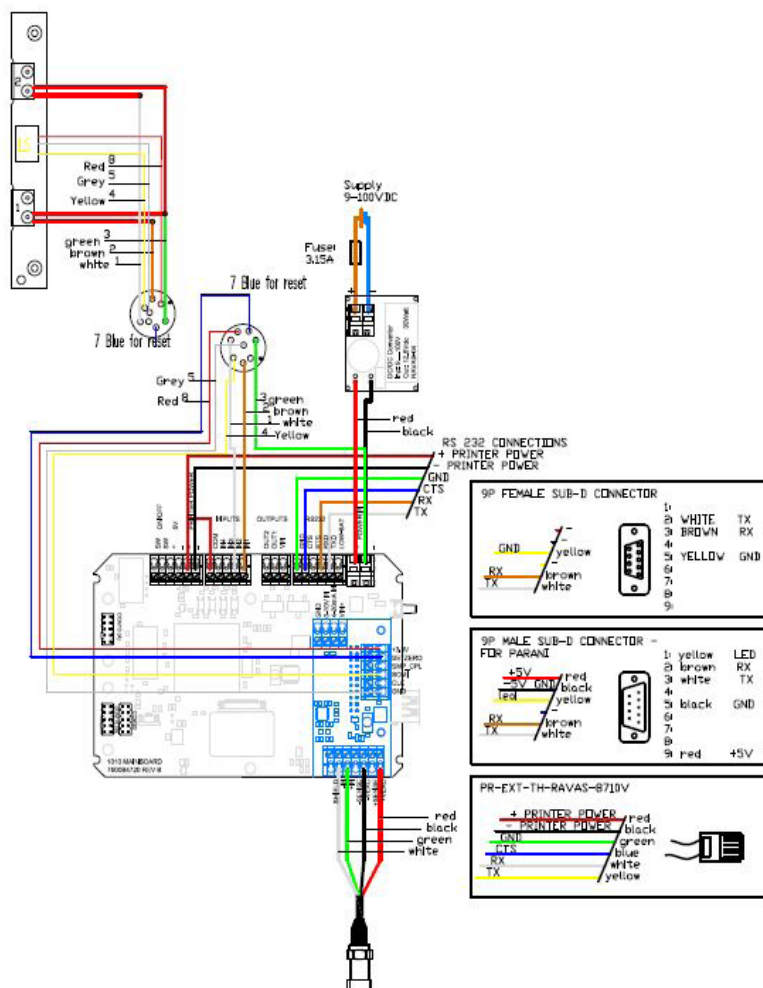


4.6 Electronics: Wiring diagram indicator



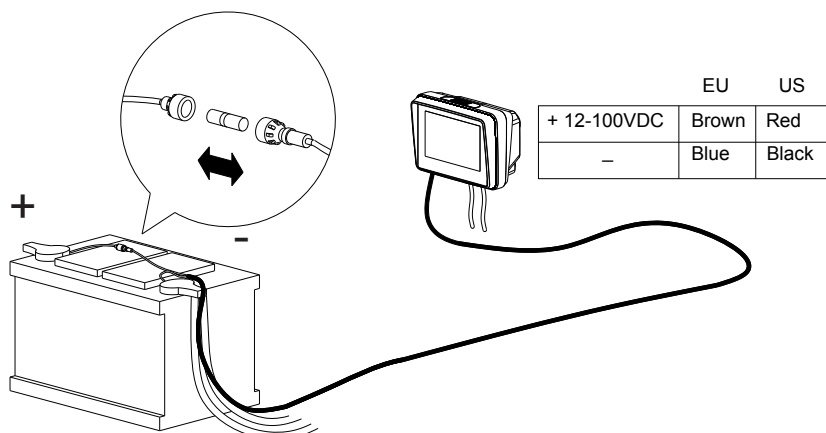
This wiring diagram can
be found in a larger size
on MyRAVAS.com.

4.6 Electronics: Wiring diagram indicator new version - valid from April 2020



This wiring diagram can be found in a larger size on MyRAVAS.com.

4.7 Electronics: Connecting the power supply cable

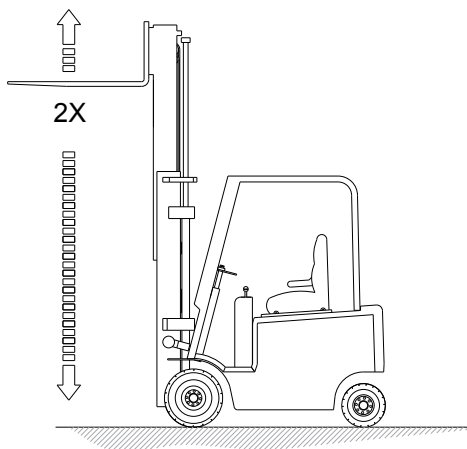


Arrange power supply from the truck

The standard RCS Hy-Q-52 indicator is equipped with an internal 12-100VDC power regulator so can be connected to a 12 to 100VDC power supply only.

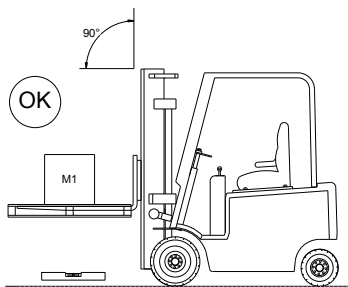
4.8 Remove any air from the hydraulic system

Bring the forks to maximum height twice to remove any remaining air from the hydraulic system.

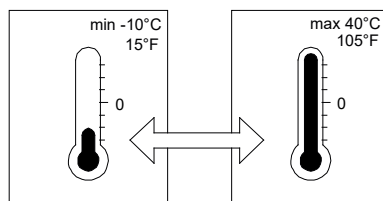
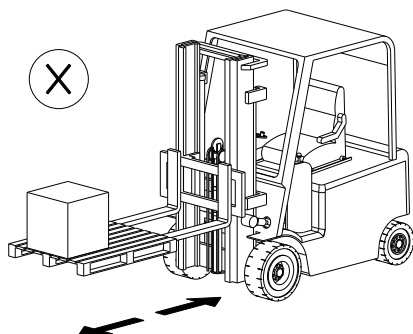
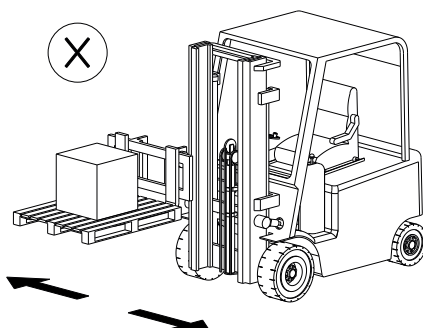
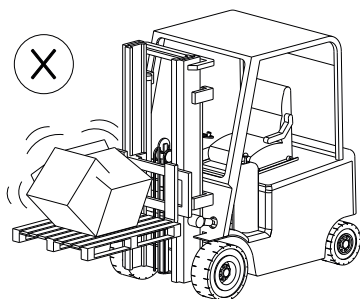
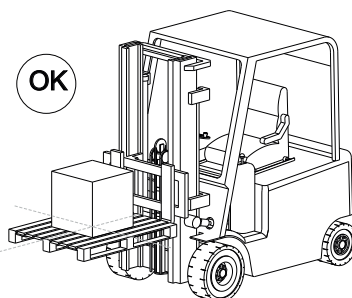


5. Calibration

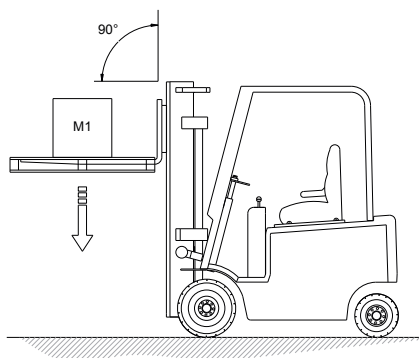
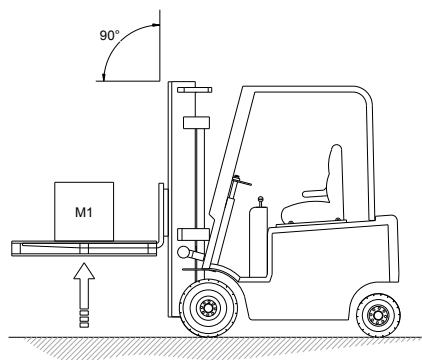
5.1 Preparing for calibration



Recommended calibration weight:
 $M1 = \pm 2/3$ of the truck's lifting capacity
EXAMPLE : 2.2t truck $\Rightarrow$ $M1 = 1500$ lb



5.2 Bringing the forklift truck to operating temperature



5.3 Operating key functions of indicator



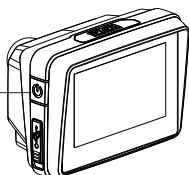
5.4 Display Functions

kg	Display shows weight in kilograms
lb	Display shows weight in pounds
NET	Display shows net weight
TARE	Display shows tare weight
M	Display shows subtotal memory active
Too fast	Move forks slower
Too slow	Move forks faster
Try constant speed	Operate the forks with a more constant speed
Zero out of range	Make sure the truck is unloaded while setting a new zero
Out of level	Make sure the mast is vertical
Bad calibration	no calibration has been done

5.5 Start calibration procedure: first go into the service menu

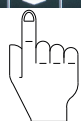
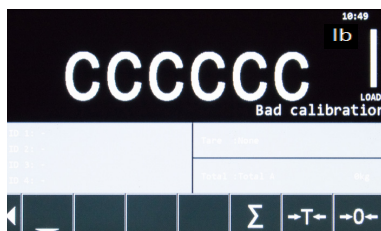
1

On/ Off
switch



Switch on the indicator by pressing the On/Off button.

2



Press the arrow down 2 times to scroll through the buttons.

3



Press the settings symbol.



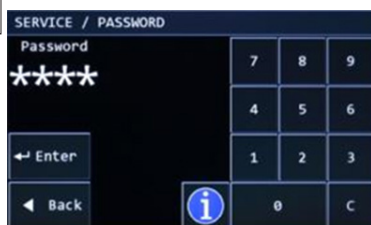
4



Now press 'Service Menu'.



5



Enter the password (5220) and confirm with enter.

6

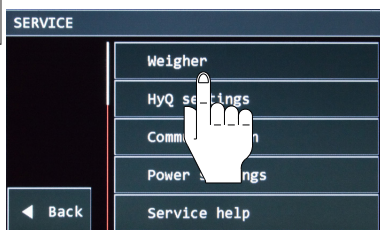


You are now in the service menu.

5.6 Set the scale capacity

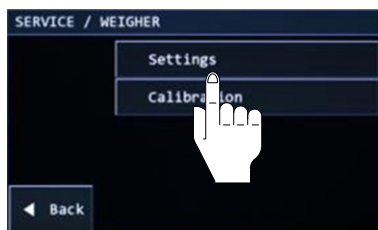
It is important to set the scale capacity according to your forklift truck's capacity because some other parameters like zero tracking and display unit will change accordingly.

1



Select 'Weigher' in the service menu.

2



Select 'Settings'.

3



Select 'Scale capacity'.

4



Select the correct scale capacity (as shown on the indicator's machine sticker) and confirm with enter.

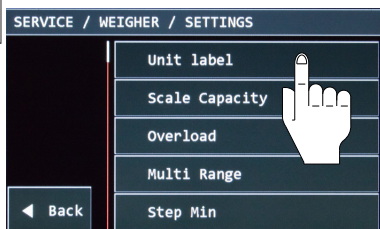
Truck capacity.

< 2,000 lb	select 2,000
2,001-5,000 lb	select 5,000
5,001-10,000 lb	select 10,000
10,001-20,000 lb	select 20,000
20,001-50,000 lb	select 50,000
50,001-99,000 lb	select 99,000
99,001-200,000 lb	select 200,000

5.7 Change unit label

Note: The calibration value does not change accordingly. For lb to be displayed you need to perform a new calibration.

1



Select 'unit label'.

2



Choose your preference kg or lb and press 'enter'.

5.8 Set the overload value

1



The overload setting determines when the load bar in the display shows overload.

2



Go to 'weigher / settings' and select overload. Enter your truck's capacity here. You can find it on the trucks load diagram.

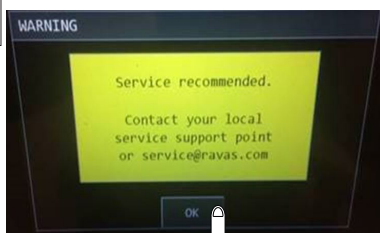
Note: If the option 'overload buzzer' is included in the system, this setting is also the set point for the buzzer.



5.9 Setting the service date

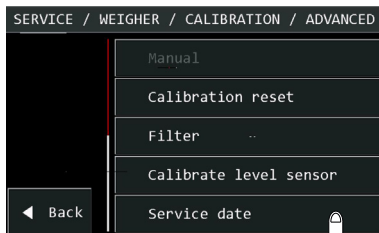
In the very rare situation that the indicator is not used for more than a year or if the calibration is done with the wrong time and date, you might get a yellow display on the indicator and the message that service is recommended. However, under these circumstances service is not needed. To restore or to avoid this message you need to switch the service date off.

1



Yellow screen appears on startup. Press 'OK' to skip the message.

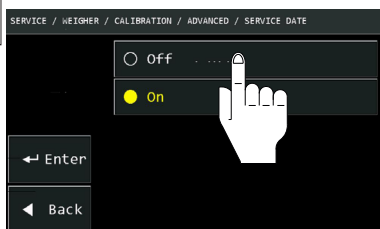
2



Enter the service menu, see paragraph 1.4. Select consecutively Weigher - Calibration - Advanced.

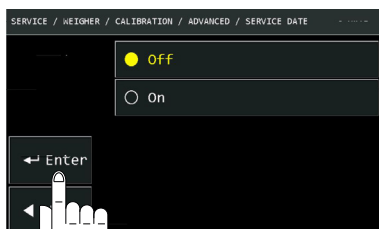
Now select 'Service date'.

3



The Service date is set to 'On'. Press 'Off'.

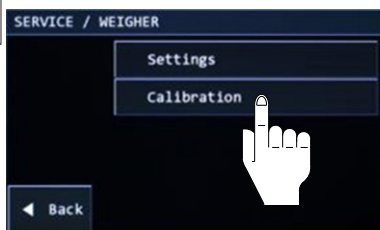
4



Confirm with Enter.

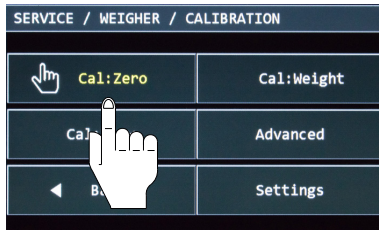
5.10 Go into the calibration menu and perform a zero calibration

1



Go to 'service menu / weigher' and select calibration.

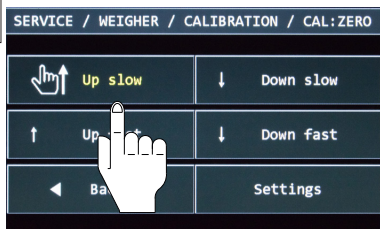
2



Calibrate as suggested by the yellow hand. Start with 'Cal: Zero'.

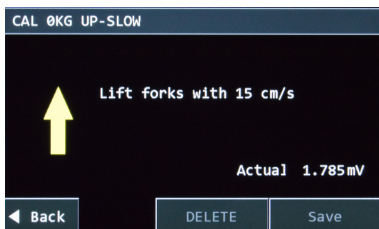
If a calibration is already done (a green tick in front of a Cal point indicates this) and you wish to remove that, press 'Advanced', and select 'Calibration reset'. Confirm by pressing 'OK'.

3



ZERO CALIBRATION – SLOW:
Place empty forks in lowest position and press the key that is suggested by the hand.

4



Lift the forks with constant speed until the yellow arrow up disappears.

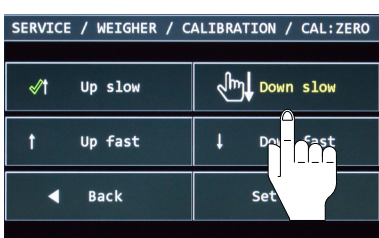
Try to approach a speed of 15 cm/s.
*12.5cm/s-17.5cm/s is acceptable**

5



The indicator will show the speed and sensor signal.
- If speed was to fast or too slow, lower the forks and try again, no buttons have to be operated.
- If speed was OK, press 'Save'.

6

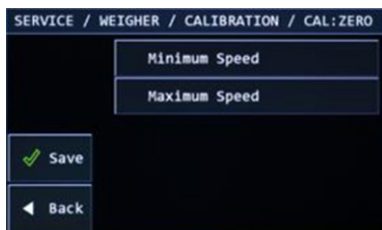


The first point is saved and the yellow 'Down slow' and the hand suggest which point to do next.

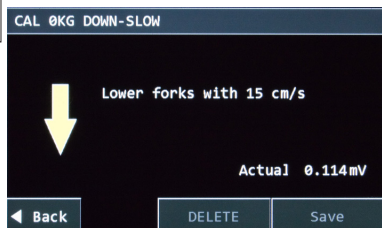
* Plus or minus 2.5cm/s is acceptable.

If this is technically impossible with the truck, then change the parameters for minimum speed and maximum speed first. You can do this via the 'settings' button.

After this you have to do the calibration points that are already done again.

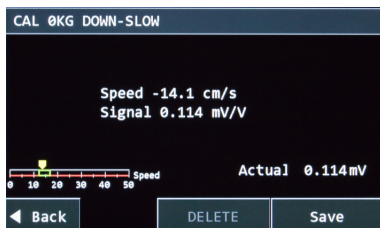


7



Lower the forks with +/- 15 cm/s.

8



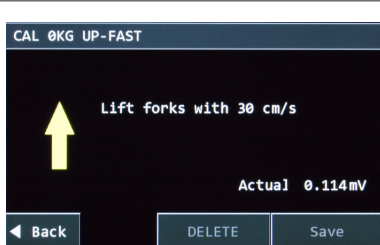
If the speed was within the green range, press 'Save'.

9



Continue with the next suggested calibration point: 'Up fast'.

10

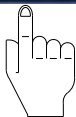


Lift the forks with +/- 30 cm/s.

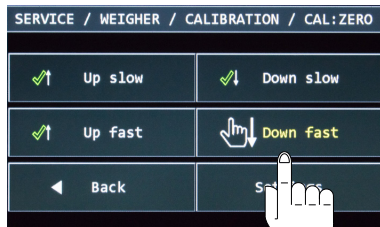
11



If the calibrated speed is correct press 'Save'.

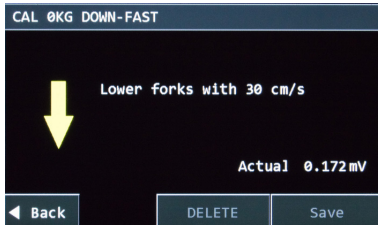


12



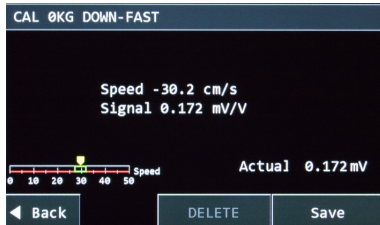
Continue with the next suggested calibration point: 'Down fast'.

13



Lower the forks with +/- 30 cm/s.

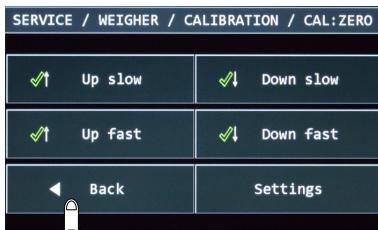
14



If the speed was within the green range, press 'Save'.



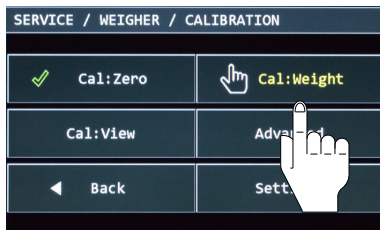
15



All zero calibration points are done and marked with a green tick.

Press 'Back'.

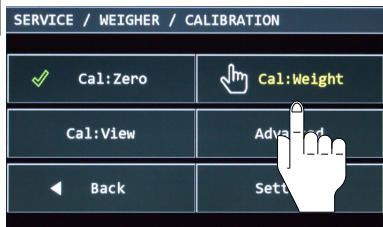
16



Continue with the weight calibration. See instructions in the next section.

5.11 Execute weight calibration: slow & fast speed

1



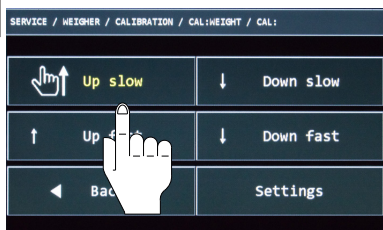
Select 'Cal:weight'.

2



Enter the weight of the load you are going to use to calibrate and confirm with 'Enter'.

3



Pick up the load before you start the calibration. Select 'Up slow'.

4



Repeat steps 4 t/m 16 of the zero calibration instructions.

5



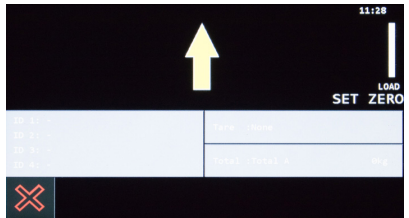
When the weight calibration is completed press 'Back' and return to the weighing mode.

6



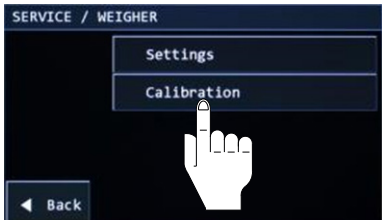
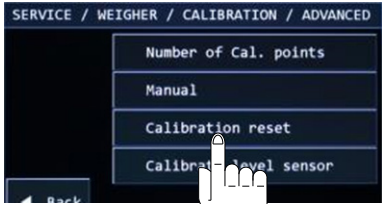
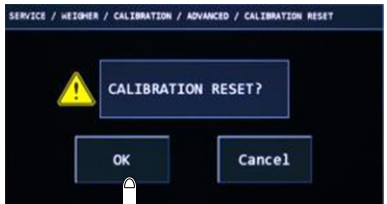
Before testing the weighing function, check the zero point first. After the calibration it sometimes doesn't show zero.

5.12 Set zero

1  When the screen doesn't show zero, set zero manually. Press the zero button.	2  Follow the instructions on the display.
--	--

5.13 Delete a calibration point

Only do this if you wish to re-calibrate.

1  Select the 'Calibration' menu.	2  Select 'Advanced'.
3  Select 'Calibration reset'.	4  Confirm with 'OK'.

6. Parameter settings

6.1 Remarks

Go into the parameter settings via the Service menu, as described in Chapter 5.5, steps 1-7.

For the list with parameter settings see the next pages.

Before using the RAVAS RCS Hy-Q-52 indicator, ensure that the parameters have been set correctly.

6.2 Parameter settings

Parameter settings for RCS Hy-Q Touch 16-10-2018			RCS Hy-Q	
Main menu	Sub menu	Description	Settings	Default
User menu	Set Time/Date	Set time	24.24.24	-
	Set Date	Set date	31-12-1999	-
	Display settings	Adjust display brightness	0-100%	100%
	Brightness	Switch power save mode on/off	Off/On	off
	Power save	Switch on/off key functions on the display in weighing mode	Off/On	on
	Keys usable	Adjust user language	English/German/French/Dutch	English
	Language	Select Decimal Point	/./.	-
	Decimal point	Set date/ time notation	EU/ US	EU
	Date format			
	Time notation			
Printer	Printer	Print	Print/ Add/ Send/ Allot	Print
	Function	None	None/ Reset-3/ Button 1/6	None
	Location	Send VRI	Print/ Add/ Send/ Allot	Send
	Function	None	None/ Reset-3/ Button 1/6	None
	Location	Summing	Print/ Add/ Send/ Allot	Add to total
	Function	None	None/ Reset-3/ Button 1/6	Row1/ Button 4
	Location	Tare	-	-
	Function	Zero	None/ Reset-3/ Button 1/6	Row1/ Button 5
	Location			
Weighing mode	Weighting mode	Change weighing mode (see measurement source)	None/ Row1-3/ Button 1/6	Row1/ Button 6
	Service help	Only to view the calibration value (for service purposes)	Empty/ Location	Empty
	Check calibration	View auto fill	-	-
	Auto	Error and overload (supply database)	-	-
	Event log	Screen on which sensor input can be checked	-	-
	Device			
Service menu	Settings (Hy-Q Scale Type)	Select scale unit	kg/ lb	kg
	Unit label	Set scale capacity (automatically sets other scale parameters)	Custom/1000/2500/5000/10000/20000/50000/100000	2500
	Scale Capacity	Set maximum capacity of truck (-> sets overload bar)	1-100000 kg	25000 kg
	Overload	Set divisions	0-5000 e	0 e
	Multi Range	Set low graduation step	1/2/5/10/20/50/100/200/500/1000	2
	Step min	Set high graduation step	1/2/5/10/20/50/100/200/500/1000	5
	Step max	Set percentage of zero correction	0-100 %	30%
	Auto zero range	Set range for automatic zero correction	0-1000 g	100 g
	Auto zero connection	Set zero suppressing	0-100 e	1 e
	Auto zero range	Setpoint for "try constant speed" warning	0-100%	5%
Weigher	Ribble Analyze	Setpoint for "try constant speed" warning	0.000-1.000m/l	0.100m/l
	Ribble Analyze	Gravitation value of position at calibration	9.000-10.000 m/12	9.812 m/12
	Gravity Original	Gravitation value of position for use of scale	9.000-10.000 m/12	9.812 m/12
	Gravity Final			

Calibration	Cal Zero	Calibrate zero			
	Slow Up	Calibrate zero, forks direction slow up		15cm/s	
	Slow Down	Calibrate zero, forks direction slow down		15cm/s	
	Fast Up	Calibrate zero, forks direction fast up		30cm/s	
	Fast Down	Calibrate zero, forks direction fast down		30cm/s	
	Settings				
	Minimum Speed	1-100		15	
	Maximum Speed	1-100		30	
	Cal Weight	Calibrate Span			
	Cal point 1	Slow Up	Calibrate span, forks direction slow up		15cm/s
	Slow Down	Calibrate span, forks direction slow down		15cm/s	
	Fast Up	Calibrate span, forks direction fast up		30cm/s	
	Fast Down	Calibrate span, forks direction fast down		30cm/s	
Settings					
	Minimum Speed	1-100		15	
	Maximum Speed	1-100		30	
	Reference weight	Change the calibrations reference weight			
Cal View	View calibration points				
Advanced					
	Number of Cal. Points	Set number of calibration points	1/2/3/4	1	
	Manual	Manually adjust calibration points	-	-	
	Calibration reset	Reset all calibration points and settings to factory defaults	OK / Cancel	-	
	Calibrate level sensor	Perform a new level sensor neutral position calibration	OK / Cancel	-	
Settings					
	Minimum Speed	1-100		15	
	Maximum Speed	1-100		30	
Hy-Q settings	Sensor Distance	Set distance between read switches	50-1000 mm	200 mm	
	Speed Calibration	Activate speed calibration	Off / On	On	
	Minimum Speed	Set minimum speed for correct weighing (blue screen)	1-100 cm/s	15 cm/s	
	Maximum Speed	Set maximum speed for correct weighing (blue screen)	1-100 cm/s	30 cm/s	
	Easy Bandwidth	Set optional bandwidth for easy mode	1-20 cm/s	5 cm/s	
	Weighting direction	Set direction of measurement, easy mode needs to be active to use this.	Up / Down / Up or down / Up and down	Up and down	
	Max. time Up -> Down	Max. time between Up and Down Weighing	0-20 s	15 s	
	Sensor Blind Time	Time that multiple inputs of one must sensor are being ignored	0.0-5.0 s	1.5 s	
	Arrow Hold Time	Time that the arrow up keeps flashing after passing the upper sensor	0.0-5.0 s	1.0 s	
	Level sensor	Set the correction sensor mode	Off / Switch / Correction	Off	
		Set the switch off angle	0-30°	0	
	On screen type plate	Enter a on screen type plate if preferred	-	-	
	Printer settings				
		Line-feed	adjust line feed after print out	0-100	1
		Header	Add header to print out	-	-
Footer		Add footer to print out	-	-	

- Bluetooth 4.0 on-board - Protocol Set the operation protocol PC PC - Info View BT status -	
- RS232 on-board - Protocol Set the operation protocol None/PC/Printer Printer - Stopbits Set number of stopbits 12 1 - Databits Set number of databits 7/8 8 - Parity Set parity None None/Odd/Even/Mark/Space None - Baudrate Set baudrate 1200/2400/4800/9600/19200/38400/57600/115200 9600	
- USB on-board - None	
- COM 10 - Hardware Select the installed hardware None/None/WiFi board None - Port settings - Protocol Set the operation protocol None/ASCII/Printer/RDC None - Scale id Scale id which the indicator is known by in the RDC software automatically according to Ixico board sn. xxx - Mode Asx/Back eff/on on - Stopbits Set number of stopbits 12 1 - Databits Set number of databits 7/8 8 - Parity Set parity None None/Odd/Even/Mark/Space None - Baudrate Set baudrate 1200/2400/4800/9600/19200/38400/57600/115200 9600	
- COM 20 - Hardware Select the installed hardware None/None/WiFi board None - Port settings - Protocol Set the operation protocol None/ASCII/Printer/RDC None - Scale id Scale id which the indicator is known by in the RDC software automatically according to Ixico board sn. xxx - Mode Asx/Back eff/on on - Stopbits Set number of stopbits 12 1 - Databits Set number of databits 7/8 8 - Parity Set parity None None/Odd/Even/Mark/Space None - Baudrate Set baudrate 1200/2400/4800/9600/19200/38400/57600/115200 9600	
- Power settings - Power save mode - Dim timer Timer for screen dim function 0-5800 s 60 - Sleep timer Timer for indicator in sleep mode 0-3600 s 300 - Deep sleep timer Timer to set indicator in most energy efficient mode 0-1440 h 8 - Power supply Set the power supply source Truck supply/ Li-ion 4.8V/ 12V/ 24V/ Custom Truck supply	
- Service help - Check calibration points (read only) Only to view the calibration values (for service purposes) - - - Alibi View alibi NR - - - Event log Error and overload logging database - - - Debug mode Screen on which sensor inputs can be checked - -	
- Reset - Reset settings Reset only the settings, calibration is kept in touch (not scale type software) - - - Reset Calibration Reset only the calibration, settings are kept in touch - -	
Scale type software Select the scale type software Hy-Q/HPT Hy-Q/HPT	

7. RDC - data transfer using WiFi to PC/server using RAVAS RDC software

In 'SERVICE' / 'COMMUNICATION' / 'COM10 '

Select 'RDC'

- Mode ACK / NACK >>> should be 'ON'
- Scale id >>> here you can enter a 3 digit PIN code

This PIN code is used as scale ID and will be used in the CSV file to determine which indicator has sent the data – please make sure you use a unique number

The RDC software will list this number and at the PC you can enter an alias for this scale nr. (for example: 'Forklift 24').

Note: make sure that your Xpico settings are correct!

In 'Tunnel settings' you need to enter the static IP address of the server and use port number 5555 – see also the Xpico240 or XpicoWi-Fi manual.