

# GI/TP/HPP 4XX USER MANUAL

EN

INDUSTRIAL WEIGHING INDICATOR

V.6.5  
26/04/2022



GI 41X series



HPP



TP 410 series



GI 410 Print

# GIROPES

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**EN**

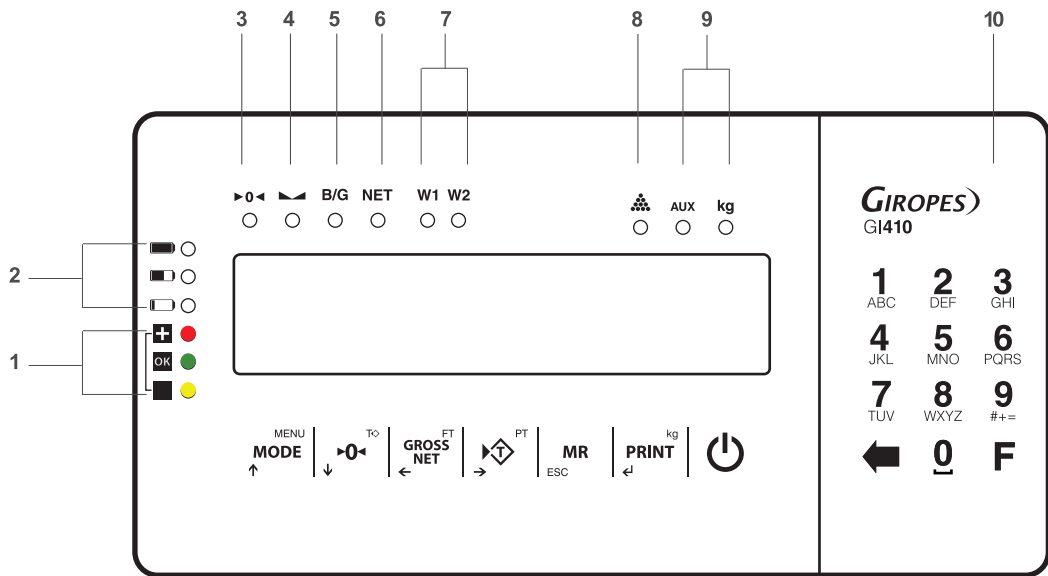
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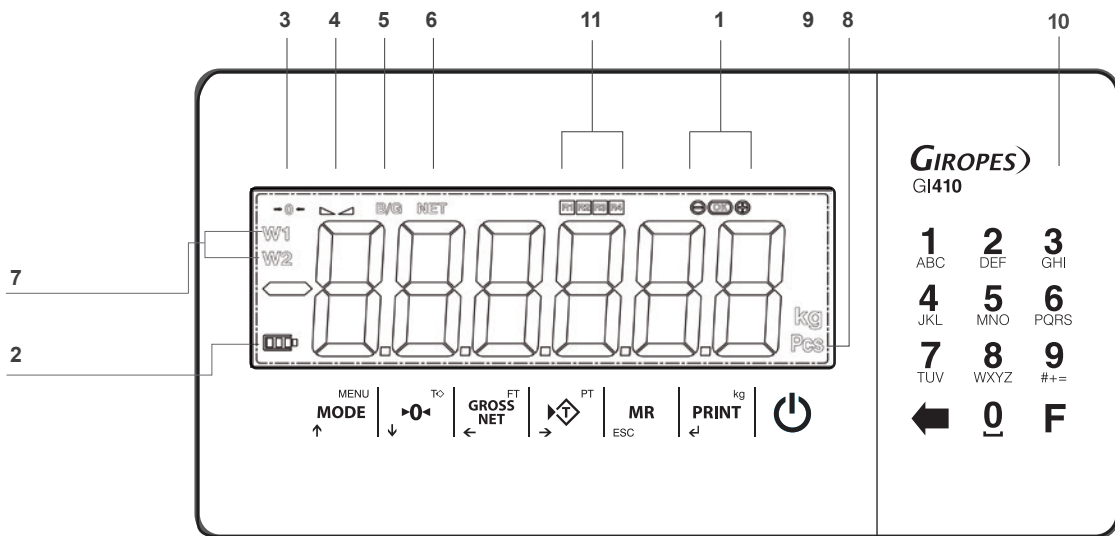
# 1. MECHANICAL DESCRIPTION

## 1.1 FRONT PANEL

### LED










### LCD







### SIGNS

1	Limit-signal in checkweigher mode
2	Level of battery-charge (only with optional battery)
3	Zero-signal
4	Stable weight
5	Gross weight
6	Net weight
7	Weighing range
8	Pieces counting mode
9	Measure units
10	Numerical keyboard (only for 410 Models)
11	Relay-signal (only LCD)



**KEYBOARD**

KEY	EXPLANATION
	Short Press: Acces to user menu Long Press: Technical menu
	Short Press: Manual zero Long Press: Remove tare
	Short Press: Show Gross/Net Long Press: Lock tare
	Short Press: Set tare Long Press: Manual tare
	Short Press: Weight totalization and total accumulation Print-out
	Short Press: Print / Manual accumulation
	Switch ON / Switch OFF



**ARROW KEYS (only work in editable menus)**

	Move editable digit to the right
	Move editable digit to the left
	Increase selected digit
	Decrease selected digit

**DELETE AND VALIDATE KEYS**

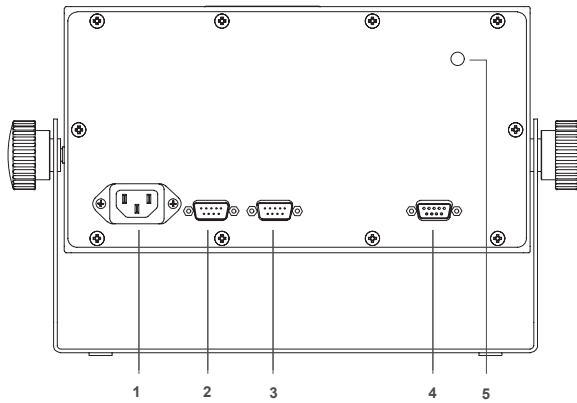
	Short Press: Erase current value Long Press: Go out / Go back from current menu
	Validate current value

**NUMERICAL KEYBOARD (ONLY 410 MODEL)**

	Erase key
	Short Press: Change numbers to characters Long Press: Enter the functions menu

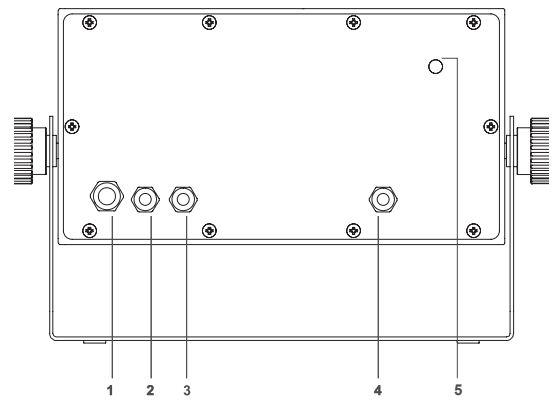
## 1.2 BACK PANEL

### INOX IP54



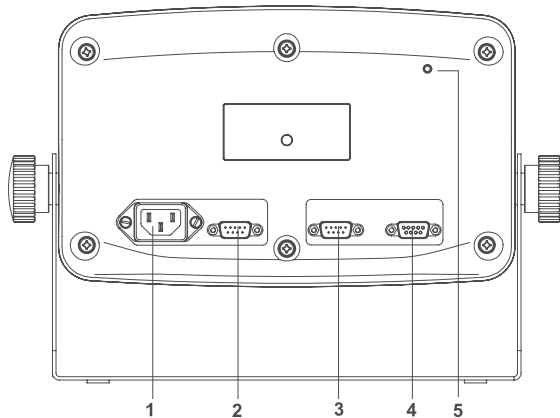
- |   |                                      |
|---|--------------------------------------|
| 1 | Power connection IEC                 |
| 2 | Connector RS 232-COM 1 (SubD 9 male) |
| 3 | Connector RS 232-COM 2 (SubD 9 male) |
| 4 | Connector Load cell (SubD 9 fem)     |
| 5 | Calibration switch                   |

### INOX IP65



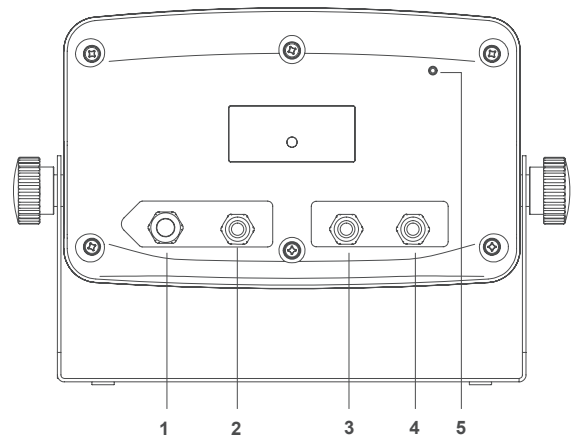
- |   |                      |
|---|----------------------|
| 1 | PG9 for Powersupply  |
| 2 | PG7 for RS 232-COM 1 |
| 3 | PG7 for RS 232-COM 2 |
| 4 | PG7 for Load cell    |
| 5 | Calibration switch   |

### ABS IP54



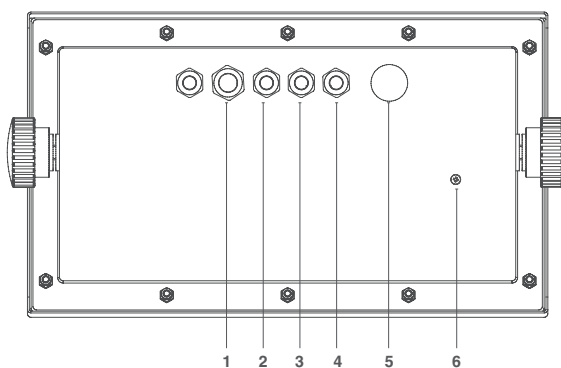
- |   |                                      |
|---|--------------------------------------|
| 1 | Power connector IEC                  |
| 2 | Connector RS 232-COM 1 (SubD 9 male) |
| 3 | Connector RS 232-COM 2 (SubD 9 male) |
| 4 | Connector Load cell (SubD 9 fem)     |
| 5 | Calibration switch                   |

### ABS IP65



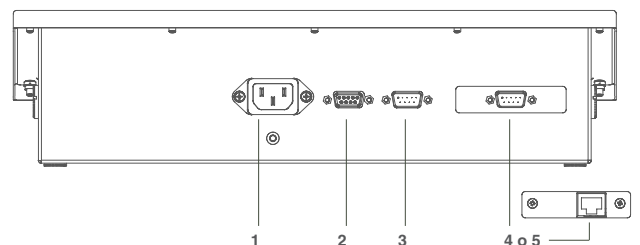
- |   |                      |
|---|----------------------|
| 1 | PG9 for Powersupply  |
| 2 | PG7 for RS 232-COM 1 |
| 3 | PG7 for RS 232-COM 2 |
| 4 | PG7 for Load cell    |
| 5 | Calibration switch   |

### INOX IP68



- |   |                       |
|---|-----------------------|
| 1 | PG9 for Powersupply   |
| 2 | PG7 for RS 232-COM 1  |
| 3 | PG7 for RS 232-COM 2  |
| 4 | PG7 for Load cell     |
| 5 | Pressostatic membrana |
| 6 | Calibration switch    |

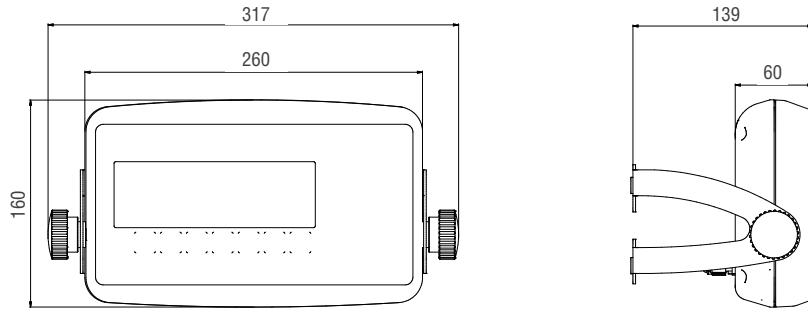
### GI410 PRINT



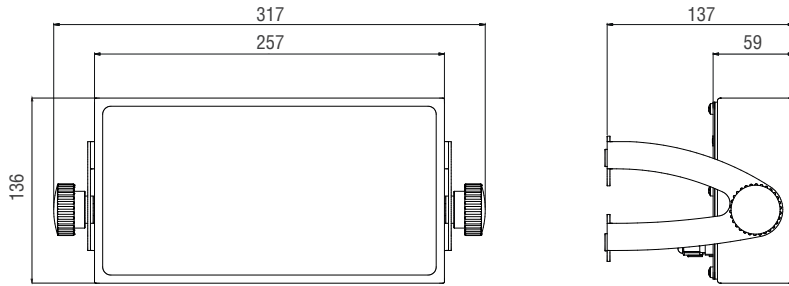
- |   |                                      |
|---|--------------------------------------|
| 1 | Power connector IEC                  |
| 2 | Connector Load cell (SubD 9 fem)     |
| 3 | Connector RS 232-COM 1 (SubD 9 male) |
| 4 | Connector RS 232-COM 2 (SubD 9 male) |
| 5 | Ethernet Connection (optional)       |
| 6 | Calibration switch                   |

### 1.3 DIMENSIONS

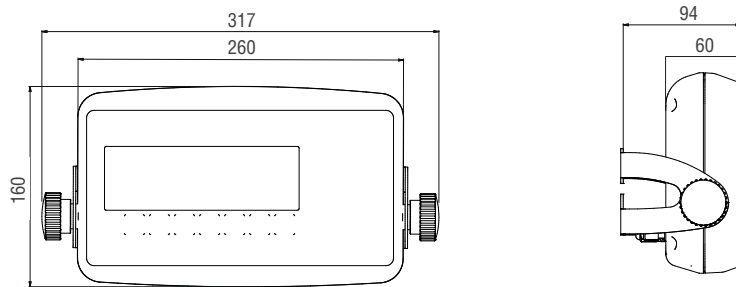
#### GI4XX ABS IP 54 - 65



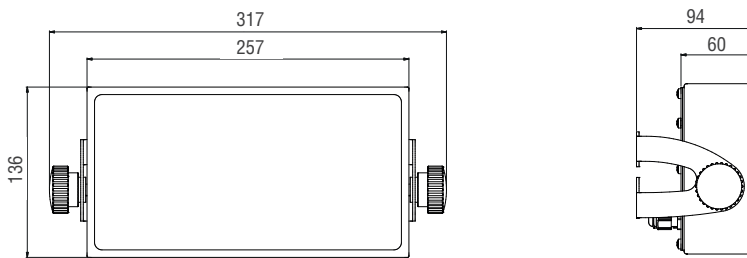
#### GI4XX INOX IP 54 - 65



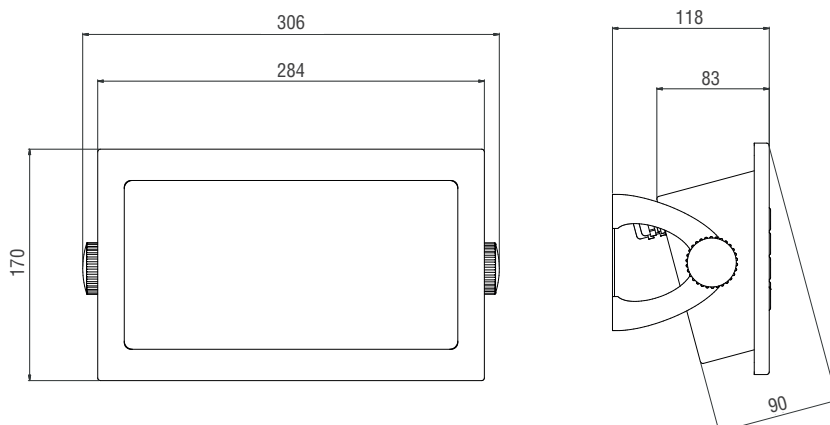
#### GI400 BAT LI-ION ABS IP 65



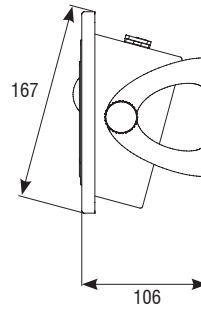
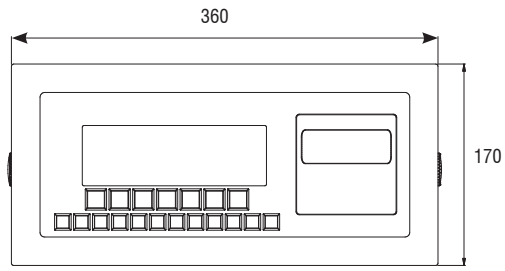
#### GI400 BAT LI-ION INOX IP 65



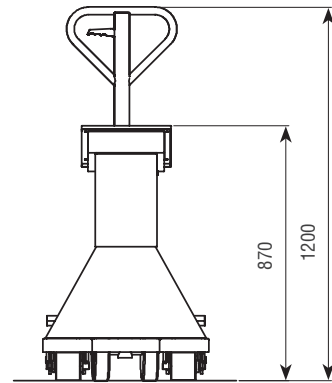
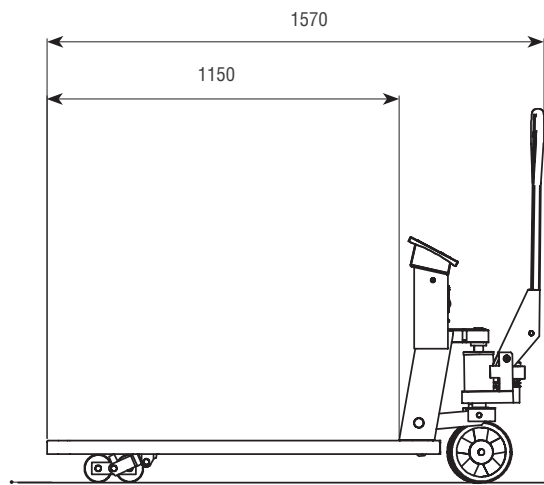
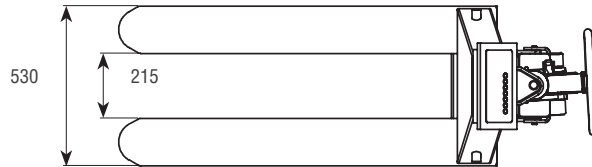
#### GI4XX INOX IP 68 / GI4XX ATEX



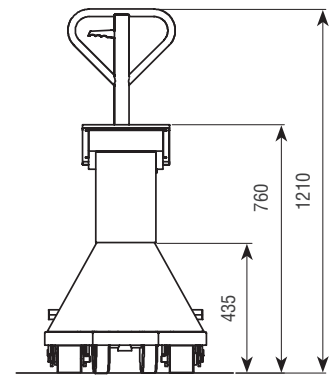
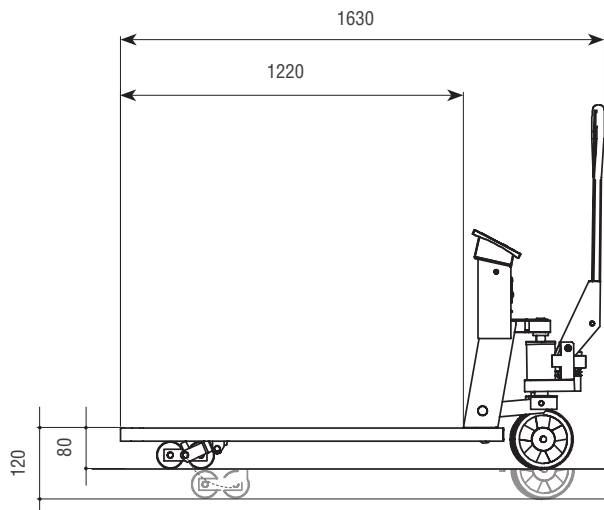
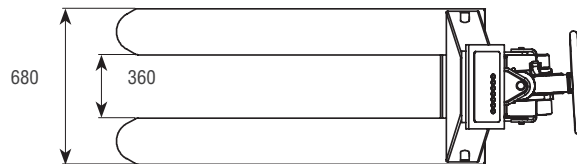
**GI410 PRINT INOX IP 54**



**TP410**





**TP410 WIDE**



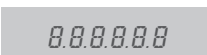


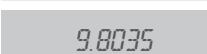



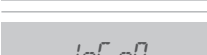




## 2. SWITCH ON

Connect the indicator. To switch on the indicator, press and hold the key  for 1 sec. To turn off the indicator, it is necessary to keep the key  pressed for a few seconds.

### 2.1 START SEQUENCE

DISPLAY	EXPLANATION
	At first, the model appears ( <i>91410</i> =GI410) o ( <i>91411</i> =GI411).
	Then the version of the program loader.
	Then all the segments of the display as well as the LED are validated ( <b>LED Version only</b> ).
	Followed by the Software Version.
	The Display will show the message <i>g.r.a.v.i.t</i>
	After that the selected gravity value.
	Next, the number of calibrations appears, followed by the corresponding value.
	Internal firmware version.
	Finally the weighing software version.
	If the Indicator doesn't detect the Inclinometer (only TP-Model).

### 2.2 DISPLAY THE SERIAL NUMBER


During the start sequence, press the key  and the device shows the serial number



You will also find the serial number printed on the back label.

### 2.3 SETTING INITIAL ZERO

When the indicator is connected with a load cell, it performs a zeroing of the scale provided that the following conditions are made:

1. Stable weight (luminous indication of stable weight  on).
2. Weight value not less than -5% of Max. regarding the calibration zero of the scale.
3. Weight value not exceeding 10% of Max. regarding the calibration zero of the scale.

During the zeroing operation, the message *ZEr0* is displayed.

If the weight is stable but outside the zero range, the 0 in the display will flash.


**Note:** Until the zeroing has not been carried, no operation can be carried out

**The zeroing accuracy is within and not beyond: 0,25e**

## 3. EXECUTABLE FUNCTIONS

### 3.1 SETTING THE SCALE TO ZERO

When press the key  $\downarrow \text{PT} \left| \right.$  assumes the metrological function of weight zeroing, in the modality described below, in reference to the current regulations.

1. Stable weight (luminous indication of stable weight  is on)
2. Weight value not less than -2% of the Max. regarding the calibration zero of the scale.
3. Weight value not higher than 2% of the Max regarding the calibration zero of the scale.
4. The indication  $\text{PT} \left| \right.$  indicates that the function has been done.

### 3.2 WEIGHT

The device switches on a indication of stable weight  when a weight is placed and its steady.

When the scale is unloaded the device additionally switches one the zero indicator  $\text{PT} \left| \right.$

### 3.3 TARE, CONSECUTIVE TARE, GROSS-NET

To do a tare the user must press the key  $\rightarrow \text{PT} \left| \right.$ . When this key is pressed the indicator is going to show immediately the net weight, and the Net indicator switches on ( **NET** ) .

If the user wants to do another tare, s/he needs to press the key  $\rightarrow \text{PT} \left| \right.$  again.

To know the gross weight (container plus contents) the user must press the key  $\leftarrow \text{GROSS NET}^{\text{FT}} \left| \right.$ . On the display the indicator Net switches off and the sign of gross weight B/G switches on.

If the user presses this key again  $\leftarrow \text{GROSS NET}^{\text{FT}} \left| \right.$  the device is going back to the net weight and the indication of Net is going to switch on again.

### 3.4 BLOCKING/UNBLOCKING TARE

If the user wants to block the used tare in the previous section, so that it does not disappear when going through zero, the user must press for at least 2 seconds, the key  $\leftarrow \text{GROSS NET}^{\text{FT}} \left| \right.$  after perform a tare. The value of tare remains blocked. The display informs the operation showing " *Tar. Blk* ".

To unblock the tare the user must keep pressed 2s the key  $\downarrow \text{PT} \left| \right.$ . The display is going to indicate this action by showing the message " *Tar. YES* " on the screen.

To program the indicator to block the tare automatically, you have to enter the technical menu. Select *CONF:3*, --> *Autarb*. Choose *YES* to automatically block the tare.

### 3.5 MANUAL TARE

Its possible to input a manual tare by pressing the key  $\rightarrow \text{PT} \left| \right.$  for 2 seconds.

Put the needed Value with the Arrow-Keys and confirm with  $\downarrow \text{PRINT}^{\text{kg}} \left| \right.$

### 3.6 MEMORIZED TARE *TLU*

The visor has 5 memorized tares: *TLU1*, *TLU2*, *TLU3*, *TLU4*, *TLU5*.

Before you can use this function you must edit and activate the desired tare from the User menu *FUN:0* --> *PrTARE*

The tare value is blocked until it is unblocked with the procedure explained in point 3.4

### 3.7 ACCUMULATION

The user can not use this function without activating any Printer protocol first (described in point 7).

To activate the accumulation the user must go to the Technical-menu *CONFUE* (described in section 6.4).

Each time the accumulation is done, the message *Acc* appears on the screen. This message disappears after some seconds and it shows again the value of the weight placed on the platform. If a printer is connected, the printer prints the weight with the selected format.

**Note:** The accumulation can work manually or automatically

### SUCCESSIVE MANUAL ACCUMULATIONS

Select the accumulation and printing in manual mode.

Place the weigh on the scale, press **PRINT**<sup>kg</sup> key when stable indication  turns on.

If we want to accumulate again, press the key **PRINT**<sup>kg</sup> again.

### SUCCESSIVE AUTO ACCUMULATIONS

Select the accumulation in automatic mode and enter the number of accumulations to totalize. The printing-trigger must be *STABLE*, *STb0* or *STb00a*.

Place the weigh on the plate, when stability indication  turns on, it will accumulate.

The indicator will continue memorizing if: the weight on the plate is changing according to the selected trigger until reaching the number of accumulations programmed or totalized.

### 3.8 WEIGHT TOTALIZATION

If one of the accumulation modes is active, once all weights had been accumulated, the user wants to know the total of the weights s/he must press the key **MR**<sub>ESC</sub>. The indicator is going to show the total number of weights and the total net weight.

If there is a printer connected, a ticket is going to be printed. (For ticket copies see menu *CONF:9->Print->Copy*).

## 4. OPERATION MODES (USER MENU)

KEY	EXPLANATION
<b>MENU</b> <b>MODE</b> ↑	Increases the Value or selected number Goes to the previous function
<b>T&lt;</b> ↓	Decreases the Value or selected number Goes to the next function
<b>GROSS</b> <sup>FT</sup> <b>NET</b> ←	Moves the edition Digit to the left
<b>T&gt;</b> <sup>PT</sup> →	Moves the edition Digit to the right
<b>MR</b> ESC	Long Press: Exit the menu without memorizing (function ESC) Short Press: In editable menu, sets the value back to 0
<b>PRINT</b> <sup>kg</sup> ↵	Choose the function and enter the menu Inside a menu, memorizing the selected option/value

MENU	
<i>WEIGH</i>	WEIGHT - MODE (STANDARD)
<i>CAL AUW</i>	CALCULATION OF THE AVERAGE UNIT WEIGHT
<i>AUW</i>	PIECE COUNTING
<i>CHECK</i>	CHECKWEIGHER
<i>CCK Si</i>	CHECKWEIGHER SIMPLE
<i>CCK d</i>	DOUBLE CHECKWEIGHER
<i>CU-RELE</i>	CHECKWEIGHER + RELAY FUNCTION ( <b>only with optional Relay-board</b> )
<i>TAKEoU</i>	TAKEOUT-FUNCTION
<i>WE:ACC</i>	WEIGHT-ACCUMULATION FUNCTION
<i>ok T.n.</i>	INITIAL AUTO TARE + CHECKWEIGHER OK FUNCTION
<i>by 10</i>	SHOWS THE WEIGHT IN HIGH RESOLUTION
<i>Subtot</i>	SUBTOTAL
<i>T Code</i>	SET A FIXED NUMBER ON THE TICKET
<i>n TIC</i>	SET THE TICKET - NUMBER
<i>dos.F.</i>	DOSAGE - MODE ( <b>only with optional Relay-board</b> )
<i>L.M.L</i>	LIMITS - MODE ( <b>only with optional Relay-board</b> )
<i>2rEL</i>	2REL - MODE ( <b>only with optional Relay-board</b> )
<i>d5d</i>	FISCAL MEMORY MENU ( <b>only with optional Fiscal Memory plugged</b> )
<i>LLU</i>	MEMORIZED TARA
<i>AnALog</i>	ANALOG OUTPUT ( <b>only with optional Analog-board</b> )
<i>FUnC.o</i>	FUNCTION - MENU
<i>rELISA</i>	RELISA PROTOCOL MENU
<i>P7653</i>	PT653 PROTOCOL MENU

#### 4.1 WEIGHT MODE *WEIGH*

The user access the normal weighing mode. (Standard - mode)

#### 4.2 CALCULATION OF THE AVERAGE UNIT WEIGHT *CAL AUW*

This function calculates the unit weight of the pieces through the piece counting program. To calculate the average unit weight the user must place a known number of pieces on the plate and press  $\text{PRINT}^{\text{kg}}$ . The screen is going to show the message *SP.xxxx*. The user must introduce, the number of pieces by using the Arrow - Keys.

To calculate and register the value of the average unit weight the user must press  $\text{PRINT}^{\text{kg}}$ .

The indicator shows, during two seconds, the message *WE:U.n.* on the screen, followed by the unit weight of one piece. After that, the indicator goes back and shows the number of pieces in the scale.

#### 4.3 PIECE COUNTING *AUW*

This function is used to do the calculation of the pieces loaded on the platform. By taking the programmed average weight (*AUW*).

The indicator asks for the *AUW* by showing the message *Px.xxxx*.

The user must introduce the value of the unit weight using the Arrow - Keys. Press  $\text{PRINT}^{\text{kg}}$  to confirm.

#### 4.4 CHECKWEIGHER CHECK

This function activates the **Checkweigher**.

The equipment is ready to manage automatically up to **4 zones** through limits of weight for each one of them.

When the user accesses the menu *CHECK*, the first parameter s/he must configures is the *LArset*: this menu programs the value of the target of weight that the user wants to achieve.

After that the user must choose the type of **Checkweigher** between *TTYPE 1* and *TTYPE 2*.

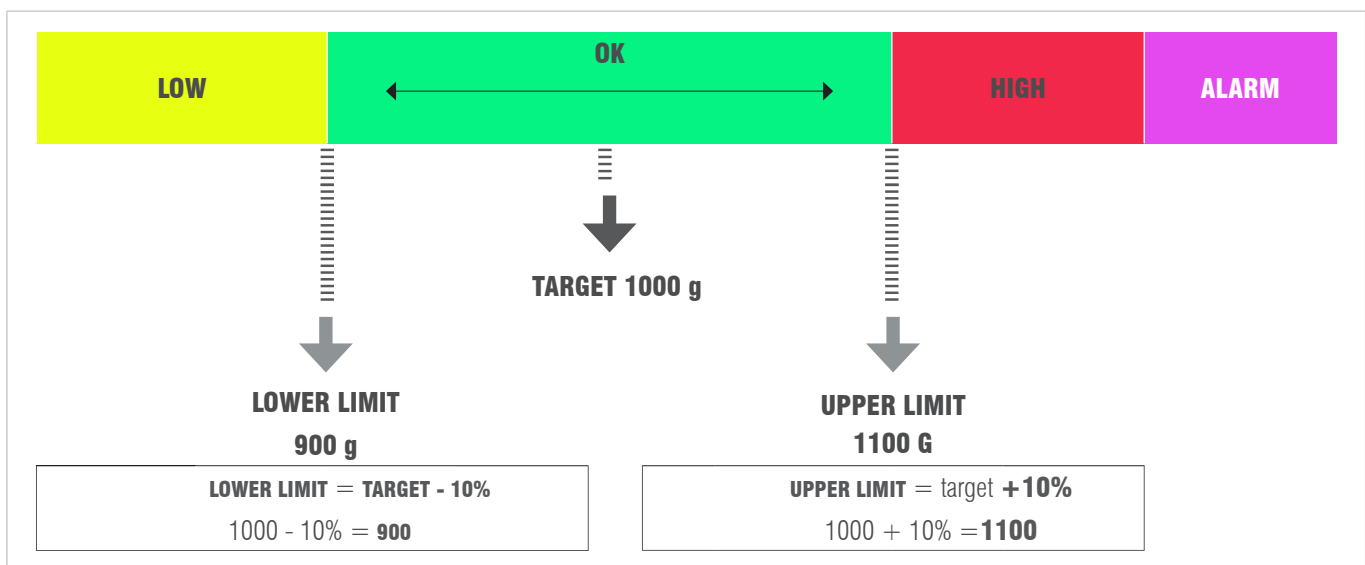
##### TARGET TYPE 1 *TTYPE 1*

If the user chooses the *TTYPE 1* it allows to choose the upper limit and the lower limit with a **percentage of the *LArset* value**.

Example:

*PC. 0 10* (Lower limit 10% below the Target)

*PC. 0 10* (Upper limit 10% above the Target)



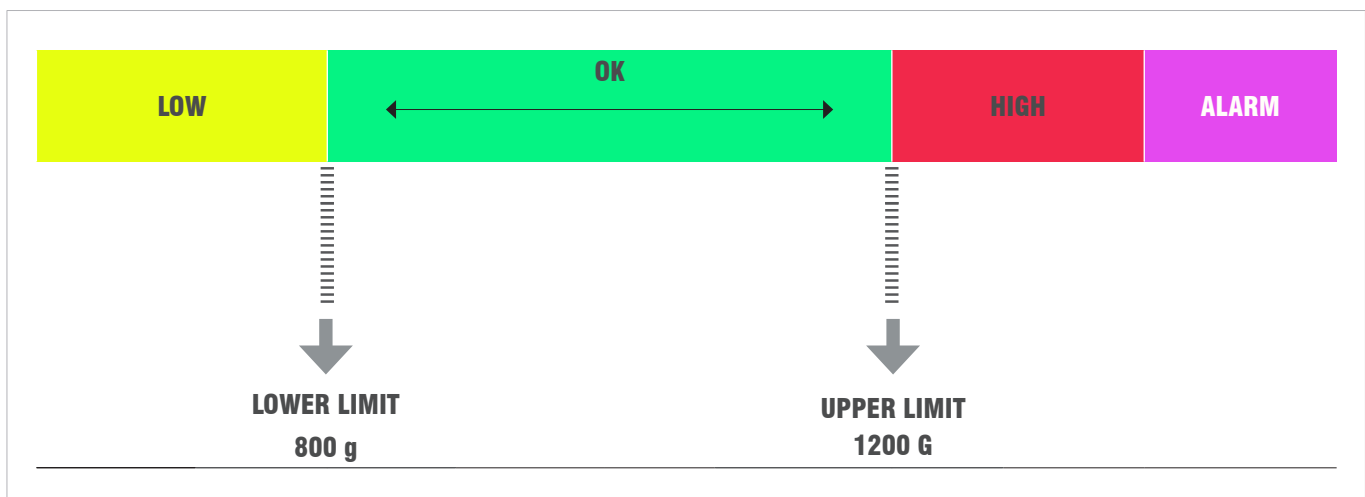
##### TARGET TYPE 2 *TTYPE 2*

Example:

If the user chooses the *TTYPE 2*, it allows to choose the upper and lower limits directly: *L* (lower) *XXXXX* and *H* (Upper) *XXXXX*

*L 800*

*H 1200*



Once the **TARGET** value and the **LIMITS** are programmed, the indicator ask the user to configure the **ALARM**. This programs the value, wich any value above this is going to activate the alarm. On **LED-Version** the 3 lights are going to turn on. Finally the user must choose the alarm type and mode. He can choose between *bEEPt* or *bEEPm*.

**BEEP TYPE** *bEEPt*

First we choose the area in which we want the beep – sound, this will occur when entering the selected zone:

*no LAr*: When it's **not in** the target range.

*LoW*: **Below** the target range.

*LGt.rng*: When it's **in** the Target range.

*HGH*: **Above** the target range.

**BEEP MODE** *bEEPm*

Then choose the kind of beep: B off/long/short

**YES/NO ACTIVE**

Finally the indicator asks if we want to activate the **Checkweigher**, in the case of not activating it is also memorized the configuration we have chosen previously.

**Note:** The Checkweigher - mode remains active until set the weight mode again.

**4.5 CHECKWEIGHER SIMPLE** *CCk S*

This function activates the **Checkweigher Simple** - Mode.

In the case of having indicators with numeric keypad, we can also activate it through **F+9+9**.

The device is prepared to automatically manage up to **3 zones by two weight limits**.

When accessing the *CCk S* menu the first parameter to be configured is the Lower limit. The screen briefly show *LnF*: and remains showing *L00000*. With the Arrow-Keys or the membrane keyboard, enter the value of the Lower limit and confirm with **PRINT** <sup>kg</sup>.

The screen will briefly show *SUP*: and remains showing *H00000*. With the Arrow-Keys or the membrane keyboard, enter the value of the Upper limit and confirm with **PRINT** <sup>kg</sup>. The screen briefly show *CWS.on* and returns to weighing mode with the **Simple Checkweigher** activated.

**Note:** The Checkweigher Simple - mode remains active until activate the weight mode again. In case of having indicators with numeric keyboard, it can also be deactivated by pressing **F+9+8**.

**4.6 DOUBLE CHECKWEIGHER** *CHK d*

This function works like the normal **Checkweigher**, but with 2 Low and High values, one after the other.

- When enter the menu at first the user have to set the Paramter in the Menupoint **Weight**.
- Once the values are entered, it asks us if we want to save them.
- Activate or not.
- We go back.
- The beep mode can be set.



**Note:** The Double - Checkweigher - mode remains active until activate the weight mode again.

**4.7 CHECKWEIGHER + RELAY FUNCTION** *CUrELE*

Before using this function we must enter the different values in the Checkweigher. This function allows us to work in Checkweigher mode in addition to activating the relays.

#### 4.8 TAKEOUT-FUNCTION (only in CAL\_open) TAKEout



The user has the option to work with a checkweigher in negative, for example to empty a big box of material into small boxes. For use this function, the user have to set a checkweigher. (Last checkweigher settings will be used when activate this function)

When the user activate this function, following Parameters will be changed:

*CONFUE* --> *ACC* --> *STABLE*  
*CONFUE* --> *ToTARL* --> *ACCAUT*  
*CONFUE* --> *SIGNAL* --> *SIGN*  
*CONFUE* --> *TARAUT* --> *TARY*

The main difference with standard checkweigher working mode is the production speed. The user have to Tare the whole Box, and start to remove material from this box. Whenever enough material is removed (according to the target-weight of checkweigher setted) and the stability-indicator is turned on, the indicator will perform a auto-tara and a new weighing will start.

#### 4.9 WEIGHT-ACCUMULATION FUNCTION (only in CAL\_open) WE:ACC

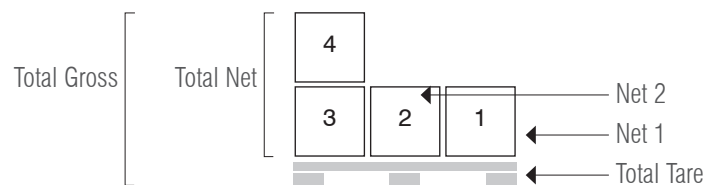
The user has the option to work with a Accumulation function, including Auto-tara each weight, for example to a Pallet with Boxes.

When the user activate this function, following Parameters will be changed:

*CONFUE* --> *TARAUT* --> *TARY*

At first the Indicator will ask, if the user wants to work with Totalization Manual, Automatic or OFF.

The main difference with standard accumulation is the Auto-Tara. After each Weighing, the indicator is performing a Auto-Tara and subtract the weight on the scale. On the end of the Accumulation, after Totalizing, the Tara will be disabled.



**Note:** The *ACC* (accumulation) has to be in manual *CONFUE / ACC / MANUAL*

#### 4.10 INITIAL AUTO TARE+CHECKWEIGHER OK FUNCTION ok 7:n

The user has the option to work with a Checkweigher, but autodetecting the first weight as an Auto-tara, for example when use a container that has little desviations of the weight, to not always input each Tare-value for each container. For use this function, the user have to set a checkweigher. (Last checkweigher settings will be used when activate this function)

When the user activate this function, following Parameters will be changed:

*CONFUE* --> *ACC* --> *StbOdo*  
*CONFUE* --> *ToTARL* --> *ToToFF*  
*CONFUE* --> *TARAUT* --> *TARY*

The main difference with standard checkweigher is, that the first stable weight will automatically be tared and after this the weighing-procedure is starting once reached the weight target (OK zone).

#### 4.11 SHOWS THE WEIGHT IN HIGH RESOLUTION *BY 10*

With the selection of this function the indicator displays 1 more decimal in the weight -screen, to have a higher accuracy. Once this function is authorized there is an activation of the display. In this situation the less significant number of the display gets activated and it indicates the value per 1/10 of the division of the calibration. The decimal moves but the display does not increase a digit.

With the device connected, the display of the data of weight does not respect the metrological indication. It is for this reason that while it is activated all the communication with the series channel is inhibited. The display remains active for a period of approximately 5 seconds, after this time, or by press **PRINT** <sup>kg</sup> or **MR** <sub>ESC</sub> the Indicator, automatically, sets the display in normal weight.

#### 4.12 SUBTOTAL *SUBTOT*

With this function the user can look up the number of accumulated weights and the total weight at the actual moment. The screen displays first the number of weights and following the total accumulated weight. This function doesn't print or delete any information, its only Look-up.

#### 4.13 CODE *Code*

This function allows the introduction of a code which is added to the printed ticket.

To introduce this code the user must use the Arrow Keys.

**Note:** This option is only valid using Print Protocol

#### 4.14 NUMBER OF TICKET *NTIC*

With this function the user can print a ticket number which is increasing automatically with every ticket. It is only increasing when the Ticket number is **different from 0**. If the Ticket number **is 0**, this function is deactivated.

#### 4.15 DOSIFICATION *DOSIF*

**(only with optional Relay-board)**

The Board has four relays with potential-free output up to 0.5A 125VAC or 2A 30VDC. With them you can check remote instruments such as relays, signal lamps and PLC. The Board also has four inputs, emulated to the keys of the equipment when they are in Dosage mode.

The equipment is ready to dose automatically with two different possibilities: 1 product at two speeds or 2 products at one speed, with unload. The device allows the programming, for each product, the weight of product 1, and the value of the weight when the device works at slow speed or the value of the product 2. The device can also program a zone of unload where it is defined the value of the dosification ( to correct the blocking of the system because there is product left in the weighing zone).



When the indicator starts working it automatically loads the last introduced formula. This allows the device to start again with its daily work. When the user gets into the menu to program the Dosage *dos.F.*, the following menu appear on the screen:

<i>dos.F.</i>		
<i>reset</i>	<b>YES / NO</b>	Reset the values to 0, and starts a new Dosage - process
<i>Prod 1W</i>	<b>WEIGHT</b>	Weight of Product 1
<i>Prod 1t</i>	<b>TIME</b>	If the weight doesn't change in this time, it activates the Alarm - Relay.
<i>Prod 2W</i>	<b>WEIGHT</b>	Weight of Product 2
<i>Prod 2t</i>	<b>TIME</b>	If the weight doesn't change in this time, it activates the Alarm - Relay Max.
<i>2 discw</i>	<b>WEIGHT</b>	Waste weight (Max. weight that is accepted to keep on the Plate) once downloaded.
<i>2 disc t</i>	<b>TIME</b>	Time of stability needed, when inside the discw - range, to finish the process.
<i>tArEE</i>	<b>AUTO/NO</b>	Perform Auto - Tare when start the Dosage.
<i>EnAbLE</i>	<b>YES / NO</b>	Start the Process

### *reset*

By selecting YES, all parameters are set zero.

By selecting NO, you can access and modify the saved values.

### *Prod 1*

It edits the values of product 1. If the weight is programmed to 0, the equipment is going to dosify the product 2.

- *W* : The desired weight for this product.
- *T* : Time of lack of material, if the weight does not vary in this time, it is going to activate the Alarm - Relay (RL4)

### *Prod 2*

It edits the values of product 2. If the weight is programmed to 0, the equipment will dosify only the product 1.

- *W* : The desired weight for this product.
- *T* : Time of lack of material, if the weight does not vary in this time, it is going to activate the Alarm - Relay (RL4)

### *2.DISC*





- *W* : Max. Weight that is accepted to keep on the Plate when discharge the Plate.
- *T* : Time of stability needed, when inside the discw - range, to finish the process, if the weight does not vary in this time, it is going to activate the Alarm - Relay (RL4).

### *ENABLE*

Ask the user if he want to start the Dosage process. If choose *YES* the screen will display *dos ON*.

The keys will do the functions specified below:

**Note:** The value of timers must be bigger than 0s for activate the Alarm - Relay (RL4).  
If the value is 0s, the Alarm - function is turned Off.

ENTRANCE EXT.	KEY INDICATOR	FUNCTION
INPUT 1		START
INPUT 2		STOP
INPUT 3		RESTART
INPUT 4		ABORT Need to press 2 times to exit the Dosage - Mode

**Note:** If the Alarm - Relay is activated, press Stop and than Restart to continue the process where it was interrupted.  
**Note:** The Dosage function remains active until it is switched off in the Menu.

### DOSIFICATION - DOWNLOADING

Also it is possible to work in the Silo-mode.

**Silo-mode:**

```

CAL.PA--> ind:CA--> 0:n:7--> noCEr0
CAL.PA--> ind:CA--> 8:n:7--> in0 100
Conf:UE --> Signal --> 5:9 7
    
```

Please take care that always there is enough Material in the Silo for the Dosification-process, otherwise it will not be possible to finish the process properly.

The setup of the indicator is the same like in normal working-mode, the only difference is to set the *2d:SCU* the same value like the **FS** of the Scale, and the *7ArE C* to *RL70*.

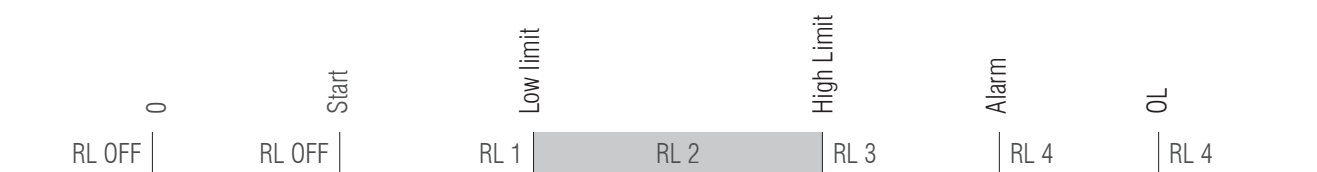
### 4.16 LIMITS LIMIT

**(only with optional Relay-board)**

The equipment is able to manage automatically up to 4 limits through registers of weight. These registers are called.

- Start
- Low Limit (Low.L.)
- High Limit (High. L.)
- Alarm

The associated relays is always activated when the weight of the scale is placed between the two limits.



As each relay is in fact a commute circuit, taking the normally closed contacts, the user is going to obtain the inverse sign of the previous figure. When we go to the function of the programming of limits (**LIMIT**), the following menu is going to appear on the screen:

DISPLAY		EXPLANATION
<b>RESET</b>	NO:	Goes to next parameter without erase the information.
	YES:	It reset all values and turn off the Relays.
<b>START</b>	S xx.xxx:	It programs the <b>Start</b> value, every value <b>above</b> this one is going to activate Relay 1.
<b>LOW</b>	L xx.xxx:	It programs the <b>Low</b> value, every value <b>below</b> this one is going to activate Relay 1.
<b>OK</b>	This value can't be programmed, it activates Relay 2 whenever the weight is <b>between</b> <b>Low</b> and <b>High</b> .	
<b>HIGH</b>	H xx.xxx:	It programs the <b>High</b> value, every value <b>above</b> this one is going to activate Relay 3.
<b>ALARM</b>	A xx.xxx:	It programs the <b>Alarm</b> value, every value <b>above</b> this one is going to activate Relay 4.
<b>ENABLE</b>	NO:	Exit from the Menu without activating this function.
	YES:	Exit from the Menu and activate this function.

**Note:** The Limit function remains active until it is switched off in the Menu.

#### 4.17 ACTIVITY CONTROL **2REL**

(only with optional Relay-board)

It is a variant of the limit function, but only using two relays.

<b>2REL</b>	<b>reset</b>	Yes / No	Reset the values to 0
	<b>Weight 0</b>		<b>Activate Relay 2</b>
	<b>Start</b>	Weight	Weight to <b>Activate Relay 1</b> (Relay 1 is only <b>turned on</b> on this value)
	<b>Target</b>	Weight	Weight to <b>Deactivate Relay 2</b>
	<b>ENABLE</b>	Yes / No	Activate this function

#### 4.18 DATA VISUALISATION **dSD**

(only with optional Fiscal Memory plugged)

Accessing to DSD menu the indicator give access to DSD file to see the weights stored with fiscal memory process.

The indicator will show the last Code in use.

Input the desired Code with the Arrow-Keys.

If all is correct, it will show weighing data.

If data is not stored, it will show an error message. (**Al. Err**)

#### 4.19 MEMORIZED TARAS TLU **TLU**

The visor has 5 memorized tares: tlu 1, tlu 2, tlu 3, tlu 4, tlu 5.

Before you can use this function you must edit and save the desired tare from the User menu TLU.

The tare value is blocked until it is unblocked with the procedure explained in point 3.4.

**EDIT:** To create and edit the tares up to a maximum of 5.

**SELECT:** To select the tare that we want to activate (have to be created previously)

**DELETE:** To erase all memorized tares.

## 4.20 ANALOG OUTPUT *AnALog*

**(only with optional Analog-board)**

This Board allows the exit of 4 - 20mA or 0 - 10V, proportional to the gross weight in the scale. The exit of the current is active and supplies the necessary voltage.

The analog exit is actualized every 50ms and acquires the appropriate value of the weight, converted into in that moment. It is for this reason that if the filter in the weight is decelerated, the analogical exit is also decelerated.

<i>AnALog</i>		
<i>ACTIVA</i>	Yes / No	Turn function On
<i>4-20mA</i>	Weight	Requesting Full Scale in Kg
<i>0-10V</i>	Weight	Requesting Full Scale in Kg
<i>Adjust</i>	An Min	Output for -UL-
	An.Zer	Output for Zero weight
	An MAX	Output for selected Full Scale

We have to activate the *AnALog* function before we start setting.

The setup process begins by selecting the operating mode. 4-20mA or 0-10V depending on the type of output you want. At this point you must specify the full scale *U MAX* which must be equal or less than the full scale of the scale.

When the *U MAX* of the scale is confirmed, the device starts the establishment of values of the analog exit, or the values of the digital/analog converter. The values are introduced between 0 and 65535. For these values it is appropriated a determined value of exit in voltage.

*An Min* ( N. xxxxx)

It establishes the minimum value of the analog exit ( *UnderL* ). With this value we adjust so that the equipment gives a value below 4 mA or 0v. It also allows us to program the magnitude of the signal when the value loaded on the platform is below zero, belonging to the condition underload.

*An.Z Er* ( Z. xxxxx)

It establishes the magnitude of the analog exit, be that in current or voltage, when the scale displays the minimum weight, which is going to belong to the Zero of the scale.

*An MAX* ( M. xxxxx)

It establishes the magnitude of the analog exit, be that in current or voltage, when the scale displays the maximum weight, which is going to belong to the previous Full Scale programmed.

Press **MR** | to access the menú *ACTIVA*.  
ESC

**EXAMPLE**

We are going to take as example a hopper scale with a Full Scale of scale of 300kg.  
 On this scale we only use the range up to 200kg for the exit of 20mA as this is the maximum capacity of the hopper.  
 In Full Scale we will introduce 200kg and adjust the value of *rMax* so that in the exit we can register 20mA with a multimeter.  
 Next we are going to the parameter *rZer* and adjust the value to obtain 4mA in the exit; with this we are going to have a perfect measuring range of 200kg and 16mA. In the parameter *rMin* we are going to introduce a value so that we can read the negatives to up to the 4mA. In the case that the automaton does not allow it, we will adjust the zero to 5mA. The measuring range is going to be of 200kg and 15mA.

**Note:** When you have an indicator with Numeric-Keyboard, you can use the Fast-access to *U-MAX* with the Keys **F** + **8** + **0**.

**4.21 FUNCTION MENU *FUnCio***

In the next stitch, it is explained, how to work with indicators with numeric keyboard.  
 The diagram of the left side is common for all indicators, and in the detail the operation of each section to manage, items of weighing, descriptive items, tares, navigating the menus with the keys with arrows enter and ESC.

**4.22 RELISA *rELISA***

This Menu is related to the Protocol *rELISA*.  
 Here you can input the fixed variable of Protocol *rELISA*.

**4.23 *PT653***

Menu according to Protocol Trayvou *PT653*, DSD Protocol too.

**5. SPECIAL FUNCTIONS OF THE NUMERICAL KEYBOARD**

You can enter the following menu by press and hold the **F** key. You can also access each function directly using the direct keys. The numeric keyboard allows us to enter the values of the different menus of the indicator much faster than with the Arrow-keys, which still continue working. Without numeric keyboard you access by *FUnCio* Menu.  
 Using the numeric keyboard it is possible to memorize a maximum of: 400 items of type 1 (File1) (the items type 1 can be or weight or chW or PCS, each item can have its own tare associated, also a description which depending of printer format will be printed too. There is the possibility of associate or a barcode or rfid) , 400 descriptive items (File2), 10 tares and 1000 weight.

<i>Pr. File 1</i>	Filxxx (Select File 1)	DIRECT KEYS	FUNCTION
<i>Code</i>	XXXXX Up to 6 Numbers	<b>F</b> + <b>1</b> <sub>ABC</sub> + <b>0</b>	Menu File 1
<i>Descr</i>	XXXXX Up to 24 Characters		
<i>Tara</i>	Weight Tara-value in Kg	<b>F</b> + <b>1</b> <sub>ABC</sub> + <b>1</b> <sub>ABC</sub>	Activate File 1
<i>Type</i>	Weight Weight-value in Kg		
	Checkweigher Checkweigh values		
	AUU Average weight in Kg	<b>F</b> + <b>1</b> <sub>ABC</sub> + <b>2</b> <sub>DEF</sub>	Deactivate File 1
<i>ERnCod</i>	XXXXX Up to 13 Numbers		
<i>rFid</i>	XXXXX Up to 20 Numbers		

<i>Pr. File 2</i>		Filxxx (Select File 2)
<i>Code</i>	XXXXX	Up to 6 Numbers
<i>Descr:</i>	XXXXX	Up to 24 Characters
<i>rFd</i>	XXXXX	Up to 20 Numbers

DIRECT KEYS	FUNCTION
<b>F</b> + <b>2</b> <sub>DEF</sub> + <b>0</b>	Menu File 2
<b>F</b> + <b>2</b> <sub>DEF</sub> + <b>1</b> <sub>ABC</sub>	Activate File 2
<b>F</b> + <b>2</b> <sub>DEF</sub> + <b>2</b> <sub>DEF</sub>	Deactivate File 2

<i>PrTare</i>		TareXX	Weight	Tara-value in Kg
<i>TareXX</i>				

DIRECT KEYS	FUNCTION
<b>F</b> + <b>3</b> <sub>GHI</sub> + <b>0</b>	Menu Pre-Tare
<b>F</b> + <b>3</b> <sub>GHI</sub> + <b>1</b> <sub>ABC</sub>	Activate Pre-Tare
<b>F</b> + <b>3</b> <sub>GHI</sub> + <b>2</b> <sub>DEF</sub>	Deactivate Pre-Tare

<i>Weight</i>	<i>Visual</i>	000000	Ticket number
			File1 number
			File2 number
			Net Weight
			Brut Weight
			Tare Weight
			Number of Pieces
			Date
	<i>CONFIG</i>	BFULLX	0 No warning
			1 Beep
			2 Beep + Message

<b>F</b> + <b>4</b> <sub>JKL</sub> + <b>0</b>	Displays the information of the weights
<b>F</b> + <b>4</b> <sub>JKL</sub> + <b>1</b> <sub>ABC</sub>	Sets the type of warning when 80% of the weighing buffer full. When reaching the 100% the indicator displays the error message <b>OverBuf</b>

<i>Total</i>		File 1	Filxxx	Net Weight
				Brut Weight
				Tare Weight
				Number of Pieces
				Total Weight
		File 2	Filxxx	Net Weight
				Brut Weight
				Tare Weight
				Number of Pieces
				Total Weight

DIRECT KEYS	FUNCTION
<b>F</b> + <b>5</b> <sub>MNO</sub> + <b>0</b>	It shows the total of the weighing associated to the item 1
<b>F</b> + <b>5</b> <sub>MNO</sub> + <b>1</b> <sub>ABC</sub>	It shows the total of the weighing associated to file 2

<i>List</i>		
<i>TotalE</i>	SinBor	Don't delete the memory
	ConBor	Deletes the memory
<i>Filter</i>	IT1XX	
	IT2XX	
	DateNo / DateSi	
<i>File 2</i>	IT1XX	
<i>File 1</i>	IT1XX	

DIRECT KEYS	FUNCTION
<b>F</b> + <b>6</b> <sub>PQRS</sub> + <b>0</b>	Prints the memory of weights with or without deleting.
<b>F</b> + <b>6</b> <sub>PQRS</sub> + <b>1</b> <sub>ABC</sub>	Prints the lists of the filtered weighing, per item 1, item 2 and date.
<b>F</b> + <b>6</b> <sub>PQRS</sub> + <b>2</b> <sub>DEF</sub>	It shows the total of the weighing associated to file 1.
<b>F</b> + <b>6</b> <sub>PQRS</sub> + <b>3</b> <sub>GHI</sub>	It shows the total of the weighing associated to file 2.

<i>Delete</i>	To access the erasing functions it is necessary to enter a password, by default 0000	
<i>File 1</i>	FiXXXX	Delete No / Yes
<i>File 2</i>	FiXXXX	Delete No / Yes
<i>TarePP</i>	TaraXX	Delete No / Yes
<i>Weight</i>		
<i>Genera</i>	NO YES	
<i>CPass</i>	OldPas NewPas	

DIRECT KEYS	FUNCTION
<b>F</b> + <b>7</b> <sub>TUV</sub> + <b>0</b>	Deletes item by item the totals of the item1 selected (TOTIT1) or the item1 completely (ALLIT1)
<b>F</b> + <b>7</b> <sub>TUV</sub> + <b>1</b> <sub>ABC</sub>	Deletes item by item the totals of the item2 selected (TOTIT2) or the item2 completely (ALLIT2)
<b>F</b> + <b>7</b> <sub>TUV</sub> + <b>2</b> <sub>DEF</sub>	Deletes a tare scheduled before
<b>F</b> + <b>7</b> <sub>TUV</sub> + <b>3</b> <sub>GHI</sub>	Deletes the stored table of memorized weighing.
<b>F</b> + <b>7</b> <sub>TUV</sub> + <b>4</b> <sub>JKL</sub>	General deleting, it deletes all the information in item1, item2, tares and table of weighing.

<i>Select</i>	Activate the stored files	
<i>File 1</i>	FiXXXX	
<i>File 2</i>	FiXXXX	
<i>TarePP</i>	TaraXX	

**CHANGE THE NAME OF THE ITEM1 AND THE ITEM 2**

Enter the technical Menu by long-press **MODE** <sup>MENU</sup> and access to the Menu-point *Conf:9*.  
 Select the option *CodeS* and the item-file you need. (*FILE 1*, *FILE 2* or *T Code*)  
 Change the Name to what you prefer.

**EXAMPLE**

In *FILE 1* change to "Product" and in *FILE 2* to "Client", press **PRINT** <sup>kg</sup> to confirm.

**EDIT THE DATA OF THE ITEM OF THE TYPE OF WEIGHING (ITEM1)**

To access from the normal weighing mode, press **F** + **1** <sub>ABC</sub> + **0**. Introduce the number of File 1 you want to edit / create.

DISPLAY	EXPLANATION
<i>Code</i>	Numerical Code of the item
<i>dESCr:</i>	Discription of the item (maximum 24 Signs)
<i>TArE</i>	Tare-value
<i>TYPE</i>	Type of weighing. Possible options: normal Weight, Checkweigher or PMU
<i>EAnCod</i>	Ean-Code of this item (Ean 13)
<i>rFid</i>	rFid-Code of this item (20 Signs)

After you confirmed the *rFid* with **PRINT** <sup>kg</sup> the item will be saved and stored.

You also can press **MR** <sub>ESC</sub> at any time, to leave Menu. (item will be stored in this case too).

**EDIT THE DATA OF THE ITEM OF THE TYPE OF WEIGHING (ITEM2)**

To access from the normal weighing mode, press **F** + **2** <sub>DEF</sub> + **0**. Introduce the number of File 2 you want to edit / create and confirm with **PRINT** <sup>kg</sup>.

DISPLAY	EXPLANATION
<i>Code</i>	Numerical Code of the item
<i>dESCr:</i>	Discription of the item (maximum 24 Signs)
<i>rFid</i>	rFid-Code of this item (20 Signs)

After you confirmed the *rFid* with **PRINT** <sup>kg</sup> the item will be saved and stored.

You also can press **MR** <sub>ESC</sub> at any time, to leave Menu. (item will be stored in this case too)



**EDIT THE DATA OF TARA**

To access from the normal weighing mode, press **F** + **3**<sub>GHI</sub> + **0** to access to the Tare-menu. The screen will show *TARE00*.  
 Introduce the Number of tare you want to edit / create and confirm with **PRINT**<sup>kg</sup> |. The screen will change to *T00.000*.  
 Now introduce the Tare-value and confirm with **PRINT**<sup>kg</sup> |. After this the Screen will show *SAVE0* to confirm the change and step back into the menu. Once you finished the setting of the Tare you have to press **MR**<sub>ESC</sub> | during 3 seconds for return to the weighing-mode.

**Note:** When you have an indicator with Numeric-Keyboards, you can use the Fast-access **F** + **8**<sub>WXYZ</sub> + **1**<sub>ABC</sub> to input Item1 and Item2 without store them before

**CONNECT WEIGHING TO ITEMS AND TARE**

Each weighing can be connected to one or more items and / or a stored tare.

Example: Weighing linked to Item1, Item2 and Tare.

For activate Item1, press **F** + **1**<sub>ABC</sub> + **1**<sub>ABC</sub>. The screen will show *F1L000*, introduce the Number of Item1 you want to activate and confirm with **PRINT**<sup>kg</sup> |.

For activate Item2, press **F** + **2**<sub>DEF</sub> + **1**<sub>ABC</sub>. The screen will show *F1L000*, introduce the Number of Item2 you want to activate and confirm with **PRINT**<sup>kg</sup> |.

For activate the Tare, press **F** + **3**<sub>GHI</sub> + **1**<sub>ABC</sub>. The screen will show *TAR000*, introduce the Number of stored Tare you want to activate and confirm with **PRINT**<sup>kg</sup> |.

**Note:** When Item1 has a pre-tare included, and also the Pre-Tare (F31) will be activated, only the last one activated will work.

**DEACTIVATE ITEMS AND TARE**

You only can deactivate the Items / Tare one by one with following combination:

**F** + **1**<sub>ABC</sub> + **2**<sub>DEF</sub> Deactivates Item1

**F** + **2**<sub>DEF</sub> + **2**<sub>DEF</sub> Deactivates Item2

**F** + **3**<sub>GHI</sub> + **2**<sub>DEF</sub> Deactivates Pre-Tare

**Note:** The Items / Tare will stay activated till you deactivate the Functions

**SEE THE STORED INFORMATION**

For see the stored information, press **F** + **4**<sub>JKL</sub> + **0**, Introduce the Number of the stored weighing you want to see and confirm with **PRINT**<sup>kg</sup> |.

**CUMULATED TOTAL**

For see this information, press **F** + **5**<sub>MNO</sub> + **0** ( for item1) or **F** + **5**<sub>MNO</sub> + **1**<sub>ABC</sub> (Item2). Introduce the Number of the Item1 / Item2 and confirm with **PRINT**<sup>kg</sup> |.

**PRINT THE TOTAL LIST**

For print the Total List of weighings, press **F** + **6**<sub>PQRS</sub> + **0**. The Indicator will ask *S:nbor* (without delete the weights) or *Conbor* (delete the weights). Choose the option you prefer and confirm with **PRINT**<sup>kg</sup>.

**Note:** To Print the List of weighings, a Print-protocol have to be set and a Printer have to be connected.

## TOTAL LIST

Weighing info	
From:	02/07/20
To:	11/07/20
-----	
Gross total:	4.045 kg
Tare total:	0.800 kg
Net total:	3.245 kg
Pieces total:	000000
Weighing total:	000067
-----	

**LIST FILTERED BY ITEM1, ITEM2 AND DATE**

For see the filtered List, press **F** + **6**<sub>PQRS</sub> + **1**<sub>ABC</sub>. Introduce the Number of Item2 / Item1 and also decide if *DATE<sub>no</sub>* (not filtered by Date) or *DATE<sub>S</sub>* (filtered by Date).

## FILTERED LIST

```

Report: Weighing
11/07/2020
-----
From:          00/00/00
To:           11/07/20
Item1:        001
Item2:        001
-----
Item2 number: 001
Item2 code:   000122
Item2:        Apple

Item1 number: 001
Item1 code:   000123
Item1:        London

Gross weight: 1.500
Tare:         0.200
Net weight:   1.300
Number of pieces:

Item2 Number: 001
Item2 code:   000172
Item2:

Item1 Number: 001
Item1 code:   005508
Item1:

Gross weight: 1.500
Tare:         0.000
Net weight:   1.500
Number of pieces: 0000000

-----
Gross Total: 3.000 kg
Tare Total:  0.200 kg
Net Total:   2.800 kg
Pieces Total: 000000
Weight Total: 000002
-----

```

### LIST FILTERED BY ITEM2

For see the List filtered by file2, press **F** + **6**<sub>PQRS</sub> + **2**<sub>DEF</sub>. The screen will show *F:1.000*, introduce the Number of Item2 and confirm with **PRINT**<sup>kg</sup>.

LIST FILTERED BY ITEM2

```

Report:  Item2
11/07/20
-----
Item2 number:      001
Item2 code:       005508

Item2:

Gross Total:      3.000
Tare Total:       0.200
Net Total:        2.800 kg
Pieces Total:     000000
Weight Total:     000003
-----
    
```

### LIST FILTERED BY ITEM1

For see the List filtered by file1, press **F** + **6**<sub>PQRS</sub> + **3**<sub>GHI</sub>. The screen will show *F:1.000*, introduce the Number of Item2 and confirm with **PRINT**<sup>kg</sup>.

LIST FILTERED BY FILE1

```

Report:  Item1
11/07/20
-----
Product number:   001
Product code:    000222

Item1:

Gross Total:      3.000
Tare Total:       0.200
Net Total:        2.800
Pieces Total:     000000
Weight Total:     000008
-----
    
```

**DELETE ITEM1**

For delete the Item1, press **F** + **7**<sub>TUV</sub> + **0**. The screen will show *CoD000*, introduce the Number of the Item1 you want to delete and confirm with **PRINT**<sub>kg</sub>. Now you will have decide between *ALLCoD* (deletes all the information of this Item1) or *ToTCoD* (deletes all information according to this item1 without delete the item1) and confirm with **PRINT**<sub>kg</sub>.

**DELETING ITEM2**

For delete the Item2, press **F** + **7**<sub>TUV</sub> + **1**<sub>ABC</sub>. The screen will show *CoD000*, introduce the Number of the Item2 you want to delete and confirm with **PRINT**<sub>kg</sub>. Now you will have decide between *ALLCoD* (deletes all the information of this Item2) or *ToTCoD* (deletes all information according to this item2 without delete the item2) and confirm with **PRINT**<sub>kg</sub>.

**6. TECHNICAL MENU**

For access to the Technical menu, press and hold **MODE**<sup>MENU</sup> for about 2 seconds. If the Calibration is "open" (Cal-switch pressed you will have to introduce a Password, by default 0000.

DISPLAY	EXPLANATION
<i>CAL_PA</i>	Calibration Parameters ( <b>metrological menu</b> )
<i>CAL 0</i>	Calibration of 0-point ( <b>metrological menu</b> )
<i>CAL</i>	Perform the Calibration ( <b>metrological menu</b> )
<i>CAL TED</i>	Teoric Calibration, when the correct Calibration-weight is not available ( <b>metrological menu</b> )
<i>GRAV 7</i>	Gravity setting ( <b>metrological menu</b> )
<i>PARAME</i>	Communication parameter ( <b>non metrological menu</b> )
<i>CONF.9</i>	Basic Parameter ( <b>non metrological menu</b> )
<i>CONFUE</i>	Basic Weighing - Parameter ( <b>non metrological menu</b> )
<i>AB7VN</i>	Visualization of Software-versions ( <b>non metrological menu</b> )
<i>DEFAUL</i>	Restore the different Default-settings

<i>PARAM</i>		<i>CONFIG</i>	
<i>COM 1 (RS-232)</i>	Frame	Filter	
	Baud	Date	
	Protoc	Time	
	AddrEs	Mv	
	dELivE	ICount	
<i>COM 2 (RS-232)</i>	Frame	Lang	
	Baud	Chpass	
	Protoc	Autarb	
	Address	Blight	
	dELivE	Standby	
<i>RS-485</i>	Frame	Print	Num LF
	Baud	Codes	Cut
	Protoc	Power	Copy
	Address	Repeat	Model
	dELivE	Decima	Prttic
<i>COM 4 (ETHERNET)</i>	Protoc	Rfid	
	Address	Ean	
	dELivE	Wifi	
		Update	
		Pieces	Digits
		P net	DefPcs

<i>CONFUE</i>	<i>ABT VM</i>
Saveue	verSio
Acc	CrC
Totali	Pr HEu
CUrang	Pr HEr
Tautin	Pr HUP
Signal	
Taraut	
CU Acc	

**Note:** To access to the metrological Paramter, it is necessary to press the Calibration-Switch on the Back (also can be seen in the images of Point 1.2)

**ATTENTION!!**  
This action automatically selects the configuration of the metrological parameters that condition the operation of the instrument with CE compliance.

## 6.1 MENU PARAME *PARAME*

<i>PARAME</i>		
<i>COM 1 (RS-232)</i>	Frame	7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2
	Baud	1200-2400-4800-9600-19200-38400-57600-115200
	Protoc	A list of the protocols can be found on page 32
	AddrEs	Device number 00 - 99
	dELivE	intErv, Stb 0, rPEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
<i>COM 2 (RS-232)</i>	Frame	7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2
	Baud	1200-2400-4800-9600-19200-38400-57600-115200
	Protoc	A list of the protocols can be found on page 32
	AddrEs	Device number 00 - 99
	dELivE	intErv, Stb 0, rPEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
<i>RS-485</i>	Frame	7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2
	Baud	1200-2400-4800-9600-19200-38400-57600-115200
	Protoc	A list of the protocols can be found on page 32
	AddrEs	Device number 00 - 99
	dELivE	intErv, Stb 0, rPEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
<i>COM 4 (ETHERNET)</i>	Protoc	A list of the protocols can be found on page 32
	Adres	Device number 00 - 99
	dELivE	intErv, Stb 0, rPEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin

<b>COM 1</b>	Port Configuration RS 232 PC, Printer etc...
<b>COM 2</b>	Port Configuration RS 232
<b>RS485</b>	Only available with the optional plate
<b>COM 4 (ETHERNET)</b>	Only available with the optional plate

**Note:** Its not possible to put the same Protocol on 2 different Com-ports at the same time.

### FRAME (COM1 / COM2 / RS485)

It allows to define the format of the communication data. The possible choices are:

**8n1-8n2-8E1-8o1-9n1-9n2-7E1 and 7o1**

### BAUD (COM1 / COM2 / RS485)

It allows to define the Baudrate The possible choices are:

1200-2400-4800-9600-19200-38400-57600 and 115200

**PROTOCOL**

Currently the device has various communication-protocols for use:

<i>nonE</i>	no selected Protocol	<i>g:ConF</i>	Protocol Giscale-Communication
<i>Print</i>	Printer-Protocol	<i>rAFEL</i>	Protocol Rafel
<i>GIPEs</i>	Protocol Giropes	<i>b:zErB</i>	Protocol Bizerba
<i>SP. 2</i>	Protocol Sipi II	<i>SP. 0</i>	Protocol Sipi (Giropes version)
<i>tol dS</i>	Protocol Mettler - Toledo DS	<i>APLUS</i>	Protocol A+ Slave (Precia Molen)
<i>ERIC</i>	Protocol Eric (Master K.)	<i>CAMP</i>	Protocol Campesa
<i>EPSA</i>	Protocol Epelsa (\$)	<i>vErMAg</i>	Protocol Vermag
<i>EPEL A</i>	Protocol Epelsa A	<i>rELISA</i>	Protocol Relisa
<i>EPEL 80</i>	Protocol Epelsa 80	<i>HbM</i>	Protocol HBM
<i>M-L</i>	Protocol Mettler - Toledo	<i>bArCod</i>	Protocol for Barcode-reader
<i>MobbA3</i>	Protocol Mobba 3	<i>doS-rC</i>	Protocol Dosification by comands
<i>F50 1</i>	Protocol F501 (Mobba)	<i>rin57</i>	Protocol Rinstrum (modell R420)
<i>SAIE</i>	Protocol Saie	<i>rin571</i>	Protocol Rinstrum (modell R420)
<i>MULTIP</i>	Protocol Multipoint 2000	<i>rHEWA</i>	Protocol Rhewa
<i>SEUr</i>	Protocol Seur	<i>rHEWA 1</i>	Protocol Rhewa
<i>LISA</i>	Protocol Tisa	<i>SOEHL</i>	Protocol Soehnle
<i>Vd-D</i>	Protocol VDO (Dibal)	<i>PESAdA</i>	Protocol with PC reception confirmation
<i>SSCAR</i>	Protocol Sensocar	<i>SYSTEC</i>	Protocol Systec
<i>CSCOMP</i>	Protocol Cas Novitus	<i>SCAIME</i>	Protocol Scaime
<i>Sb-400</i>	Protocol SB-400 (Cardinal)	<i>NT 429</i>	Protocol Mettler - Toledo (Template 1)
<i>SMART</i>	Protocol Smart (F1 Utilcell)	<i>dPESA</i>	Protocol Seur + 2/3 Digits
<i>LHL</i>	Protocol Teaxul	<i>EXPRES</i>	Protocol Bizerba (Correos version)
<i>bILANC</i>	Protocol Bilancai	<i>TrAnSC</i>	Protocol Transcell
<i>br80</i>	Protocol BR80 - Baxtran	<i>TAGS</i>	Protocol personalizable by User
<i>br80 1</i>	Protocol BR80 - Baxtran (invertida)	<i>PT6S3</i>	Protocol Trayvou PT6S3
<i>GrAv. 7</i>	Protocol Gravitation	<i>v7300</i>	Protocol Vishay VT 300
<i>AL.b.</i>	Protocol Alibi Memory (Fiscal)		



**ADDRES (COM 1 / COM 2 / RS485)**

Adjustment of the direction of the device.

**DELIVE**

**TRANSMISSION MODE (COM1 / COM2 / RS485 AND ETHERNET)**

It allows the user to configure the device, through the selected serial channel, for sending data to the PC.

**MAnual:** The device sends the data string, by press the key **PRINT**<sup>kg</sup>.

**PC.req:** The device sends the data string, at the request of the PC.

**Contin:** The device sends the data string continuously.

**intErv:** The device sends the data string, in time intervals (the interval can be configurated by the user)

**Stb 0:** The device sends the data string, once a stable weight has been acquired and previously having gone through zero.

**rPEti:** Send mode reserved for the function of the device as a repeater. (Only working with following Protocols: *S:P: 2, S:P: 0, Smart, SSCAr, b:LAnc*)

**Stb0do:** The device sends the data string, once a stable weight has been acquired, previously having passed through zero and once unload the scale.

**STABLE:** The device sends the data string, once a stable weight has been acquired.

WITH THE PRINT PROTOCOL *Print* SELECTED, THE USER WILL ONLY HAVE FOLLOWING SENDING MODES: **MAnual, Stb 0, Stb0de AND STABLE**

**6.1.1 MENU ETHERNET**

**MENU ETHERNET (ONLY AVAILABLE WITH OPTIONAL PLATE)**  
 Connect the Device to the PC, using a switch  
 Enter the IP of the Device in the Browser  
**192.168.0.130 (by default)**

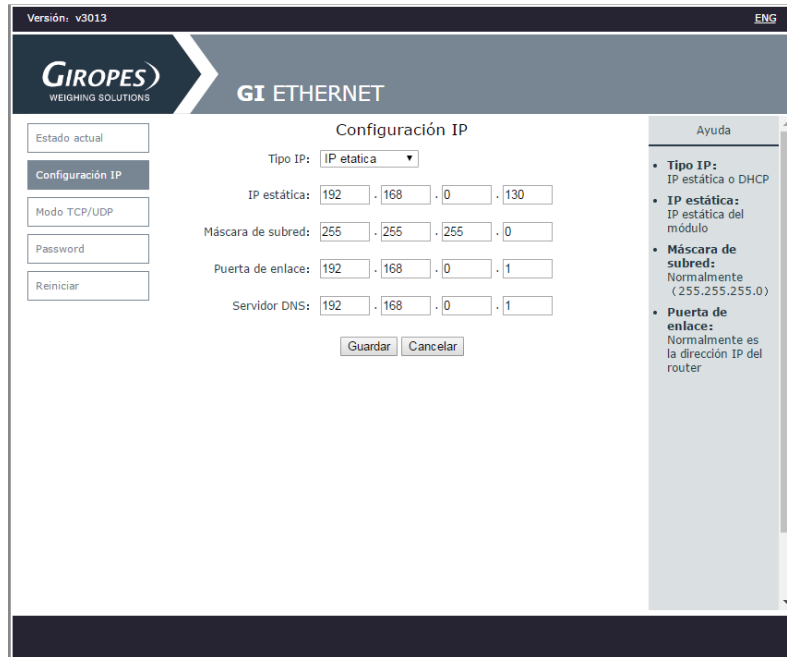
↑

**Note: The IP of the PC has to be in the same range as the IP of the device**

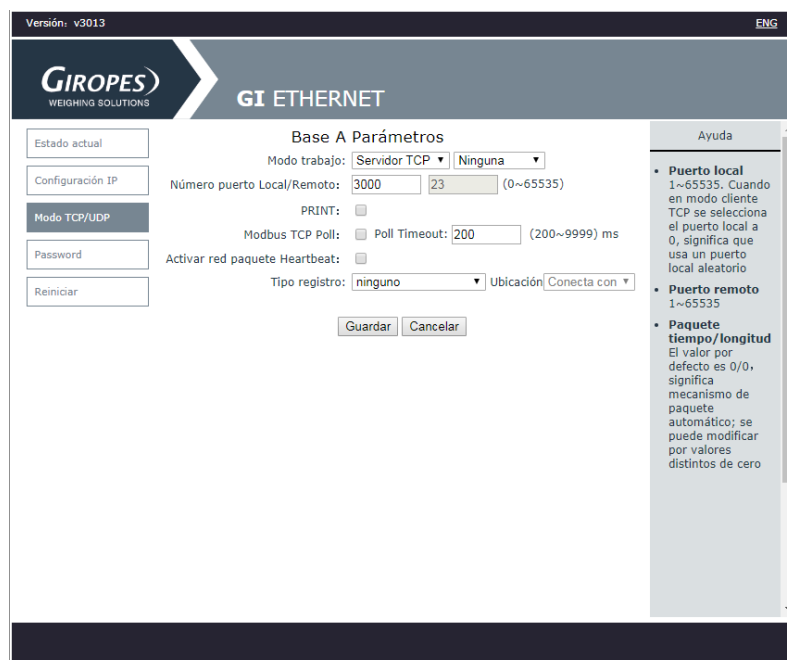


Enter the username and password. **(admin and 1234)**

In the **IP Configuration** tab you can change the IP



In the **TCP / UDP mode** tab you can change the port.



You can change the username and / or password in the Password tab.  
If you forget them, you have to open the equipment and bypass the RST pads for 5s to reload the factory parameters.

**6.2 MENU CONFIG****CONFIG**

<i>FILTEr</i>	Average weighing filter (1 - 6)										
<i>dALE</i>	Date										
<i>TIME</i>	Time										
<i>mV</i>	mV of the load cell										
<i>iCoUnt</i>	Internal counts										
<i>LANG</i>	Language (English/ Spanish/ French/ Italian)										
<i>CHPASS</i>	Change password										
<i>BLkArb</i>	Block Tara										
<i>blght</i>	Back light ( <b>only LCD-Indicator</b> )										
<i>SLAnBY</i>	Auto Stand-by ( <b>only LED-Indicator</b> )										
<i>Print</i>	Print settings										
	<table border="1"> <tr> <td><b>Num LF</b></td> <td>Ticket and advance lines</td> </tr> <tr> <td><b>Cut</b></td> <td>Settings for the ticket cut</td> </tr> <tr> <td><b>Copy</b></td> <td>Number of Print-outs</td> </tr> <tr> <td><b>Model</b></td> <td>none / Plus2 / LH350 / btPr99</td> </tr> <tr> <td><b>PrTTiC</b></td> <td>Print ticket YES / NO</td> </tr> </table>	<b>Num LF</b>	Ticket and advance lines	<b>Cut</b>	Settings for the ticket cut	<b>Copy</b>	Number of Print-outs	<b>Model</b>	none / Plus2 / LH350 / btPr99	<b>PrTTiC</b>	Print ticket YES / NO
<b>Num LF</b>	Ticket and advance lines										
<b>Cut</b>	Settings for the ticket cut										
<b>Copy</b>	Number of Print-outs										
<b>Model</b>	none / Plus2 / LH350 / btPr99										
<b>PrTTiC</b>	Print ticket YES / NO										
<i>CodeS</i>	Name of items and T-code ( <b>only indicator with numerical keyboard</b> )										
<i>inCLin</i>	Menu "Inclinometer" ( <b>only TP-Model</b> ) ( <b>only in "Cal Open"</b> )										
	<table border="1"> <tr> <td>ZERo</td> <td>calibrate Zero</td> </tr> <tr> <td>EnAbLE</td> <td>Activate inclino inc n / inc Y</td> </tr> <tr> <td>Ang H</td> <td>Inclination horizontal in °</td> </tr> <tr> <td>Ang Y</td> <td>Inclination vertical in °</td> </tr> <tr> <td>H 100</td> <td>Max inclination in %</td> </tr> </table>	ZERo	calibrate Zero	EnAbLE	Activate inclino inc n / inc Y	Ang H	Inclination horizontal in °	Ang Y	Inclination vertical in °	H 100	Max inclination in %
ZERo	calibrate Zero										
EnAbLE	Activate inclino inc n / inc Y										
Ang H	Inclination horizontal in °										
Ang Y	Inclination vertical in °										
H 100	Max inclination in %										
<i>POUEr</i>	Select internal battery ( <b>optional</b> )										
	<table border="1"> <tr> <td>6 V</td> <td>internal battery <b>with</b> external charger</td> </tr> <tr> <td>12 V</td> <td>external battery <b>with</b> external charger</td> </tr> <tr> <td>3.7 V</td> <td>internal battery <b>without</b> external charger</td> </tr> <tr> <td>7.4 V</td> <td>internal battery <b>with</b> external charger</td> </tr> </table>	6 V	internal battery <b>with</b> external charger	12 V	external battery <b>with</b> external charger	3.7 V	internal battery <b>without</b> external charger	7.4 V	internal battery <b>with</b> external charger		
6 V	internal battery <b>with</b> external charger										
12 V	external battery <b>with</b> external charger										
3.7 V	internal battery <b>without</b> external charger										
7.4 V	internal battery <b>with</b> external charger										
<i>rEPERt</i>	Retransmission of frame in repeater mode										
<i>dECiMA</i>	Decimal-point ( <b>only in "Cal Open"</b> )										
<i>rFd</i>	rFdOFF / ACPLU1 / ACPLU2 / AdddAT										
<i>ERn</i>	AdddAT / ACPLU1										
<i>WtP:</i>	res N / res S										
<i>UPdATE</i>	activate the Update-mode for update by "Update-tools"										
<i>PIECES</i>	For input manually amount of Pieces to the weight with numeric Keyboard										
<i>P nET</i>	Input manually the minimum-weight										

### 6.3 MENU *CONFUE*

<i>CONFUE</i>	
<i>SAVEUE</i>	Save the Weighings Yes / No
<i>ACC</i>	Trigger for Accumulation (explained in the point “delive”)
<i>TOTAL</i>	Totalization-Mode
<i>CURANG</i>	Range when accept the weight (in Checkweigher)
<i>TARUT.n</i>	initial Auto Tara No / Yes —> <b>Only activate it with «ACC stable»</b>
<i>SIGNAL</i>	Ignore the - (checkweigher is working in negative) No / Yes <b>(only in “Cal Open”)</b>
<i>TARAUT</i>	Auto Tara No / Yes (when weight is accepted and stable) <b>(only in “Cal Open”)</b>
<i>CUACC</i>	Cnet / CnetA (Checkweigher actual / accumulated) <b>(only in “Cal Open”)</b>

#### TOTALIZATION-MODE *TOTAL*

This function carries out the menu of Totalization.

**Note:** To make the Accumulation work, it is necessary to select the Protocol *Print* in the serial Port Com 1 or Com 2.

DISPLAY	EXPLANATION
<i>TOTAL</i>	Access to the Menu by press <b>PRINT<sup>kg</sup></b>   Now choose between following options: <i>TOTALOFF</i> (off) <i>TOTALMAN</i> (manual) -> Totalization <i>TOTALAUT</i> (automatic) Confirm with <b>PRINT<sup>kg</sup></b>  .
<i>ACCoff</i>	Accumulation deactivated
<i>ACCMAN</i>	Accumulation manual. When the weight is stable and higher than minimum weight, it accumulates when press <b>PRINT<sup>kg</sup></b>  . When this option is selected, in the screen appear <i>ACC</i> after accumulate a weight. I will accumulate till the user press <b>MR<sub>ESC</sub></b>  .
<i>ACC AUT</i>	Accumulation automatic. When the weight is stable and higher than minimum weight, it accumulates automatically. Once this option is confirmed, in the screen appear the, message <i>nAxxxx</i> . The user must introduce the desired number of Accumulations by using the Arrow-keys or numeric keyboard.  When the user dont introduce a number, the indicator will accumulate till the user press <b>MR<sub>ESC</sub></b>  , or the maximum of 999 accumulations is reached.

## INCLINOMETER “inCLin”

Before starting the calibration, make sure the weighing pallet truck is **level** and **secure**.

DISPLAY	EXPLANATION
<i>P. 10000</i>	The device will ask for the Password. By default 0000
<i>CONF:9</i>	Choose the menu <i>CONF:9</i> use the Arrow-Keys and press <b>PRINT</b> <sup>kg</sup> to confirm.
<i>inCLin</i>	Choose the menu <i>inCLin</i> use the Arrow-Keys and press <b>PRINT</b> <sup>kg</sup> to confirm.
<i>H 100</i>	Select the maximum deviation of the inclination. The user can choose between 2% and 5%. Press <b>PRINT</b> <sup>kg</sup> to confirm.
<i>ZEro</i>	Make sure the weighing pallet truck is level and secure, and also there is no weight on the device. Press <b>PRINT</b> <sup>kg</sup> to confirm. The device shows <i>ZEro 1</i> in the display. Press <b>PRINT</b> <sup>kg</sup> to confirm
<i>EnABLE</i>	To activate the inclinometer choose <i>inCL Y</i> . Press <b>PRINT</b> <sup>kg</sup> to confirm

**Note:** By default the deviation of the weighing pallet trucks is set on 2%.

### 6.4 ABT VM

ABT VM	SHOW THE DIFFERENT VERSIONS OF THE PROGRAM
<i>VERSIO</i>	Weight modulus version
<i>CRC</i>	Checksum where the 4 digits of less priority are displayed first (right part of the sum) and after the 4 digits of more priority (left part of the sum).
<i>Pr Hev</i>	Printing of events
<i>Pr Her</i>	Printing errors
<i>Pr HUP:</i>	Printing of updates (version and CRC)

### 6.5 FAbric

FAbric	
<i>USER P</i>	Sets the user settings back to the factory settings (Menu Config)
<i>COM P</i>	Sets the settings of the Com ports back to the factory settings.
<i>TECH P:</i>	Sets back all themetrological parameters tothe factory settings <b>Only in CAL_open available</b>

# 7. PRINTER

For use a Printer, you have to set the Print-protocol and format first (By default Print-protocol is set in COM1).

To set the Printer-protocol and format, access to the Technical menu by press **MENU** **MODE** for about 2 seconds and choose the menu point *PR.PRM*. Now choose the desired COM-Port where the Printer will be connected (if you have a build in printer it is using COM1), confirm the COM-port with **PRINT** and choose the point *Prd ToC*. Now choose the Protocol *Prin 7* and confirm with **PRINT**. Following you will have to decide the Print-format. There are 7 default formats and 1 free configurable (with the Software Configuration-Tools). Select the desired format and confirm with **PRINT**.

## 7.1 TICKET FORMAT:

### FORMAT FOR WEIGHT

Printformat: *PrnF.1*

Date: 11/06/2020	Time: 11:08:06
Gross:	654 kg
Tare:	10 kg
Net	644 kg
-----	

Printformat: *PrnF.1* (with numeric Keyboard)

	Weighing Number: #1	→ 1
	Date: 11/06/2020	Time: 11:15:12
3 ←	T code: 123	→ 2
4 ←	Truck: Cuba	→ 5
6 ←	Grain: Maiz	→ 7
	Gross: 654 kg	
	Tare: 10 kg	
	Net 644 kg	
-----		

### FORMAT FOR PIECE-COUNTING:

Printformat: *PrnF.2*

Date: 11/06/2020	Time: 11:32:35
PMU:	2000001953 g
Gross:	654 kg
Tare:	0 kg
Net	654 kg
Units	33 u
-----	

Printformat: *PrnF.2* (with numeric Keyboard)

	Weighing Number: #5	→ 1
	Date: 11/06/2020	Time: 11:15:12
3 ←	T code: 123	→ 2
4 ←	Truck: Volquete	→ 5
6 ←	Grain: Piedras	→ 7
	PMU: 20000.001953 g	
	Gross: 652 kg	
	Tare: 0 kg	
	Net: 652 kg	
	Units: 33 u	
-----		

**FORMAT FOR CHECKWEIGHER**

Printformat: *PrnF.3*

```

Date: 11/06/2020      Time: 11:37:08
Target Weight:         500 kg
Actual weight:         652 kg
Deviation:             152 kg
-----

```

Printformat: *PrnF.3* (with item weighing and T-code)

```

Weighing Number:      #1
Date: 11/06/2020     Time: 11:38:31
Tcode: 123
Truck: Remolque
Grain: Cebada
Target weight:        100 kg
Actual weight:        644 kg
Deviation              544 kg
-----

```



**FORMAT FOR TOTALIZED WEIGHTS**

Printformat: *PrnF. 1-3*

```

=====
TOTAL
=====
Date: 11/06/2020      Time: 11:37:08
*****
Weighing Number:      00002
=====
Tot Gross:            2614 kg
-----
Tot Tare:             10 kg
-----
Tot Net:              2604 kg
=====

```

Printformat: *PrnF. 1-3* + weighing n°

```

=====
TOTAL
=====
Date: 11/06/2020     Time: 11:42:10
*****
Weights:              #00001 - 00001
Number of weights:    00001
-----
Tot Gross:            654 kg
-----
Tot Tare:             10 kg
-----
Tot Net:              644 kg
=====

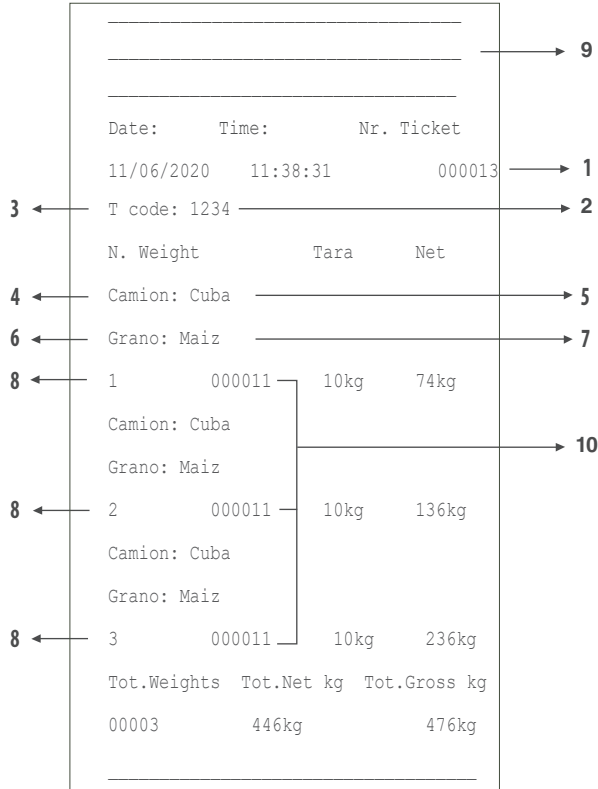
```



**FORMAT FOR ACCUMULATION WITH TOTALIZATION PRINTFORMAT:**

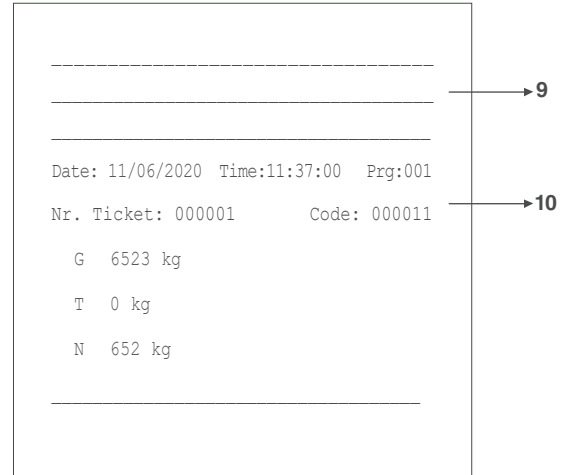
*PrntF. 4* (Line by Line)

3 header lines of 40 characters editable with software **configuration tool**

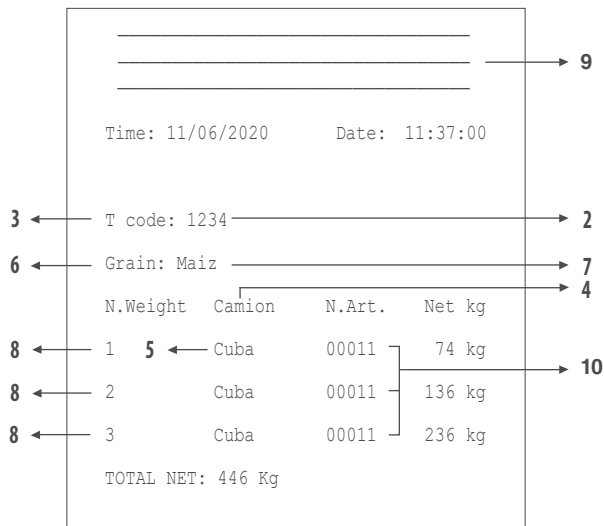


Printformat: *PrntF. 5*

3 header lines of 40 characters editable with software **configuration tool**



Printformat: *PrntF. 6* (Line by Line). 3 header lines of 40 characters editable with software **configuration tool**



**LEGEND**

1. The initial value of the editable counter from which each new ticket is added (in the 1-3 format, the weighing number = ticket number. If the ticket number is at zero, it will not appear).
2. Fixed editable number (if set the value to 0, will not appear in the ticket)
3. Fixed editable field (if set the value to 0, will not appear in the ticket)
4. Name Item 1 (only with item 1 activated)
5. Value active record of item 1 (only with item 1 activated)
6. Name Item 2 (only with item 2 activated).
7. Value active record of item 2. (Only with Item 2 activated).
8. Weighing number.
9. Header lines (only appear if they are previously edited).
10. Code Element 1






## 8. ERROR MESSAGES

DISPLAY	POSSIBLE PROBLEM	POSSIBLE SOLUTION
<p><b>HIGHEr</b></p> <p>Function of initial zero setting</p>	<ol style="list-style-type: none"> <li>1. The current zero value is higher than calibration zero</li> <li>2. The weight on the pan is not stabil</li> <li>3. Load-cell connection / broken</li> </ol>	<ol style="list-style-type: none"> <li>1. Unload the platform.</li> <li>2. Wait till the stable-indicator is active.</li> <li>3. Make sure the load cell is working properly, use the menu "mV" in config</li> </ol> <p><b>If the anomaly persists, pls contact your supplier service.</b></p>
<p><b>LOWEr</b></p> <p>Function of initial zero setting</p>	<ol style="list-style-type: none"> <li>1. The current zero value is lower than calibration zero</li> <li>2. The weight on the Platform is not stabil</li> <li>3. Load-cell connection / broken</li> </ol>	<ol style="list-style-type: none"> <li>1. Please take care that nothing is touching/lifting the platform</li> <li>2. Wait till the stable-indicator is active.</li> <li>3. Make sure the load cell is working properly, use the menu "mV" in config</li> </ol> <p><b>If the anomaly persists, pls contact your supplier service.</b></p>
<p><b>Over L</b></p> <p><b>OVERLOAD</b></p>	<ol style="list-style-type: none"> <li>1. The load cell is not (not correct) connect</li> <li>2. Cable broken</li> <li>3. Load cell broken</li> <li>4. Weight on the platform is above the maximum capacity of the scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure the load cell is connected properly.</li> <li>2. Make sure the cable of the load cell is working properly, if not replace it.</li> <li>3. Make sure the load cell is working properly. Use the menu "mV" inside config, unload platform and give attention to the signal, if its not changing or changing very slow, there might be an error of the load cell.</li> <li>4. Unload the platform.</li> </ol> <p><b>If the anomaly persists, pls contact your supplier service.</b></p>
<p><b>UnderL</b></p> <p><b>UNDERLOAD</b></p>	<ol style="list-style-type: none"> <li>1. The load cell is not (not correct) connect</li> <li>2. Cable broken</li> <li>3. Load cell broken</li> <li>4. Weight on the Platform is lower than the maximum negative indication of the scale</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure the load cell is connected properly.</li> <li>2. Make sure the cable of the load cell is working properly, if not replace it.</li> <li>3. Make sure the load cell is working properly. Use the menu "mV" inside config, unload platform and give attention to the signal, if its not changing or changing very slow, there might be an error of the load cell.</li> <li>4. Check if something is touching the Platform or put weight on the Platform.</li> </ol> <p><b>If the anomaly persists, pls contact your supplier service.</b></p>
<p><b>-0-Err</b></p> <p>Function of manual zero setting</p>	<p>Weight on the Platform is to high to perform a manual zero setting</p>	<p>Unload the Platform</p>

<p><b>LArH3</b> Function of manual Tare</p>	<p>The selected Tare-value exceed the maximum capacity of the scale</p>	<p>Input a Tare-value according to the maximum capacity of the Scale</p>
<p><b>No STB</b></p>	<p>The weight on the Platform is not stabil</p>	<p>Wait till the stabil-indicator turn on</p>
<p><b>Ove Buff</b> <b>Buff Full</b></p>	<p><b>dsd-Memory 80% full</b> <b>dsd-Memory full</b></p>	<p>Delete the weighings with F74 (only with numerical keyboard) or from the functions menu explained in the user manual. The device has an option "SAVEWE" in "CONFUE", so that the weighings are saved or not.</p>
<p><b>Wei Err</b></p>	<p>Weight less than minimum</p>	<p>Put a weight higher than the minimum</p>
<p><b>neu Wei</b></p>	<p>Same weight</p>	<p>Vary the weight on the platform</p>

**BUILT-IN PRINTER ERRORS G410 PRINT**

STATUS LED	DESCRIPTION	
	<b>OFF</b>	Printer turned Off
	<b>ON</b>	Printer turned On, no errors
	<b>X2</b>	Temperature High
	<b>X3</b>	Paper empty
	<b>X4</b>	Incorrect supply voltage
	<b>X5</b>	Reception error
	<b>X6</b>	Unrecognized Command
	<b>X7</b>	Command reception time out

## 9. CONNECTIONS

### WIRING DIAGRAM IP54 LOAD CELL (DB9)

THE IP54 INSTRUMENT IS SUPPLIED COMPLETELY FOR CONNECTING THE LOAD CELL

- 1 Male connector to be welded (9 tracks)
- 1 coverage/blocking cable protected

The cable that comes from the Load Cell is connected by welding, it is recommended to be very careful with the quality of the same and the insulation between the conductors and the use of tin of good quality since a product of poor quality or not Ideally, it could impair the proper functioning of the instrument.

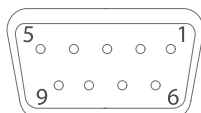


Abbildung 8

#### FUNCTION OF PINS IN G4XX

n° pin	Description	Function	n° pin	Description	Function
<b>1</b>	-EXC	- Excitation	<b>4</b>	+SENSE	+ Sign SENSE
<b>2</b>	-SENSE	- Sign SENSE	<b>5</b>	+EXC	+ Excitation
<b>3</b>	GND_A	analog mass			
<b>7</b>	- OUT	- Sign Load cell			
<b>8</b>	+ OUT	+ Sign Load cell			

#### FUNCTION OF PINS IN HPP

n° pin	Description	Function	n° pin	Description	Function
<b>1</b>	-EXC	- Excitation	<b>4</b>	SDA	Data signal I2C
<b>2</b>	INT	Interruption inclinometer	<b>5</b>	+EXC	+ Excitation
<b>3</b>	GND_A	analog mass	<b>6</b>		Not connected
<b>7</b>	- OUT	- Sign Load cell	<b>9</b>	SCK	Clock signal I2C
<b>8</b>	+ OUT	+ Sign Load cell			

If the Load Cell is equipped with a 4-wire connection cable plus protection, and not with 6 wires plus protection, it is necessary to connect the power supply (+) with SENSE (+) and (-) with SENSE (-) joining pin 1 with pin 2 and pin 4 with pin 5.

To minimize electrical and radio interference, it is absolutely necessary that all connection cables between the Device and Load Cell be of the protected type and that the entire system be connected to an optimum grounding.

The supplier of the Device can supply a type of connection cable purposely studied and equipped with double protection to weld the shield and ground terminals.

Regarding the connection of the protection shields of the cable, refer to the following figure.

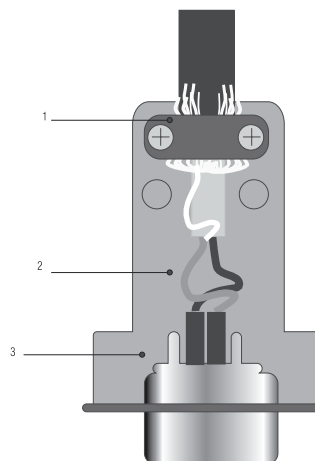
Minimum impedance 25  $\Omega$

Maximum impedance 1100  $\Omega$

**1- The external protection** of the cable that must be tightened in the metal parachute with terminal mustaches SITUATED between the two covers of the cover

**2- The termination of the internal protection** of the cable must be closed in the metal parachute WITH BIGOTES: Do not connect to pin 3 of the connector

**3- Protected coverage in conductive material**



## INTERFACE SERIE RS 232 COM 1 & COM 2 (DB9)

The Device includes in the standard model 2 serial exit of the type RS-232.

Description of the connector pin-out male exit series RS232 COM1

n° pin	Description	Direction
<b>2</b>	TX (RS232c - transmitter)	Exit
<b>3</b>	RX (RS232c - receiver)	Entrance
<b>5</b>	GND (signal common)	

## OPTIONAL RS485 COM 3 (DB9)

n° pin	Description
<b>1</b>	EARTH
<b>8</b>	RTx -
<b>9</b>	RTx+

## OPTIONAL 4-20MA / 0-10V ANALOG (DB9)

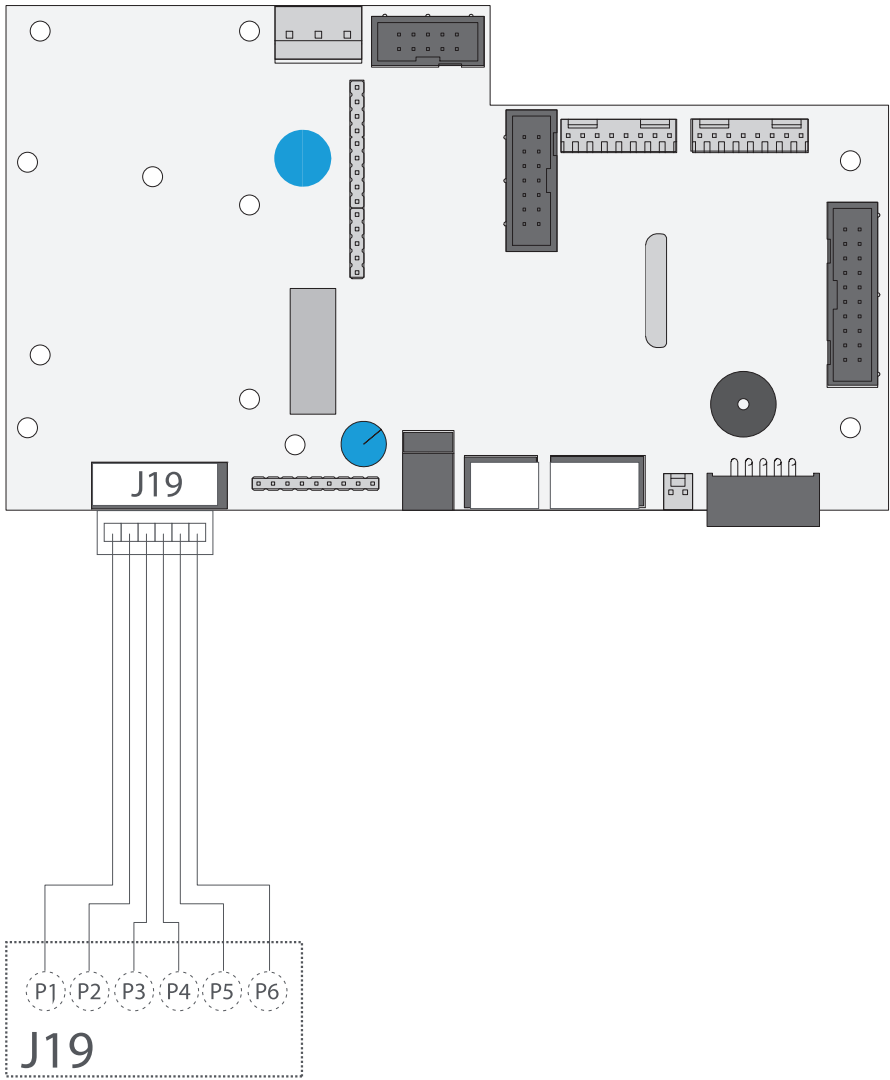
n° pin	Description
<b>6</b>	GND
<b>7</b>	V <sub>OUT</sub>
<b>8</b>	I <sub>OUT</sub> -
<b>9</b>	I <sub>OUT</sub> +

## OPTIONAL 4E/4S(RELAY) (DB25)

n° pin	Description	n° pin	Description
<b>1</b>	RLY1_C	<b>13</b>	IN1-
<b>14</b>	RLY1_NO	<b>25</b>	IN1 +
<b>2</b>	RLY2_C	<b>12</b>	IN2-
<b>15</b>	RLY2_NO	<b>24</b>	IN2 +
<b>3</b>	RLY3_C	<b>11</b>	IN3-
<b>16</b>	RLY3_NO	<b>23</b>	IN3 +
<b>4</b>	RLY4_C	<b>10</b>	IN4-
<b>17</b>	RLY4_NO	<b>22</b>	IN4 +
<b>5</b>	+5V <sub>DC</sub>	<b>9</b>	+5V <sub>DC</sub>
<b>18</b>	GND	<b>21</b>	GND

# WIRING DIAGRAM IP65 / IP68

## LOAD CELL

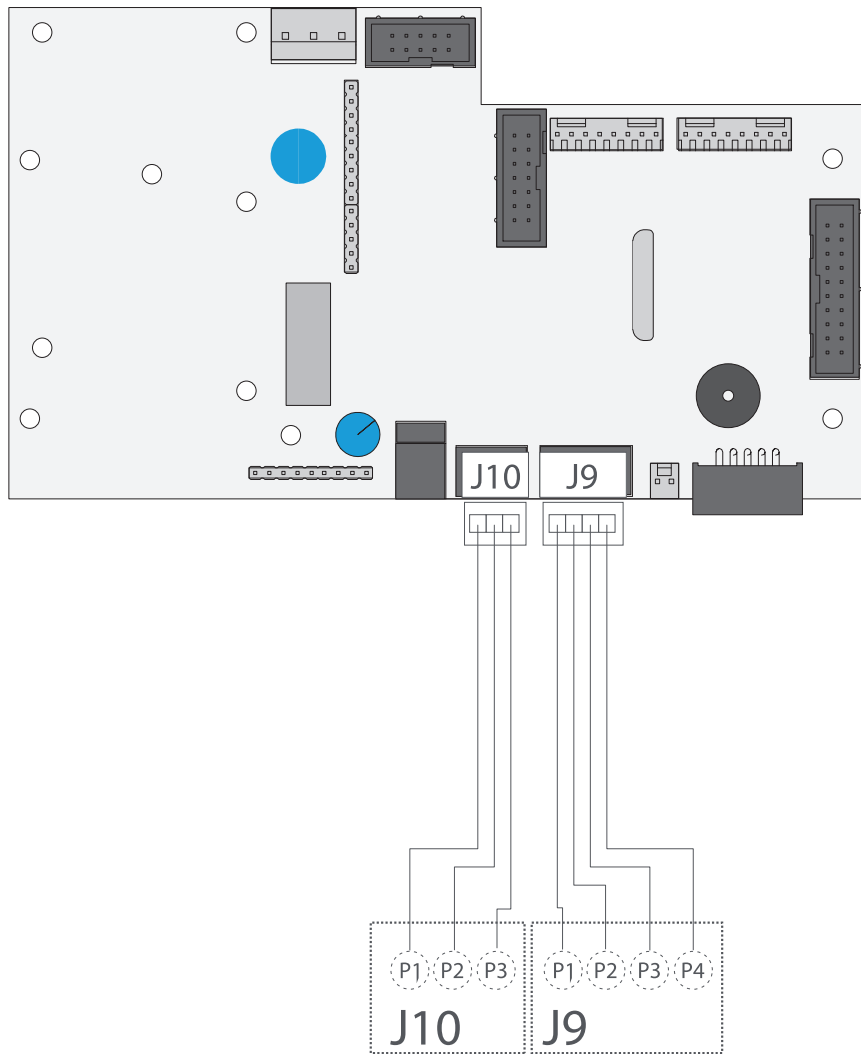


### LOAD CELL CABLE

#### CONNECTOR J19

pin 1	IN+ (Exit Load cell)
pin 2	IN- (Exit Load cell)
pin 3	SENSE+
pin 4	SENSE-
pin 5	EXC+
pin 6	EXC-

## SERIAL INTERFACE RS-232 COM1 / COM2



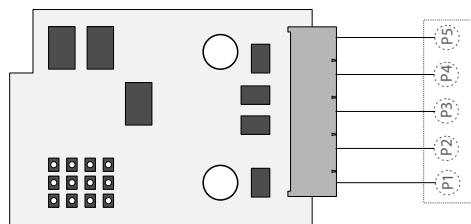
**COM 1  
RS232  
CONNECTOR J9**

pin 1	-
pin 2	RX
pin 3	TX
pin 4	GND

**COM 2  
RS232  
CONNECTOR J10**

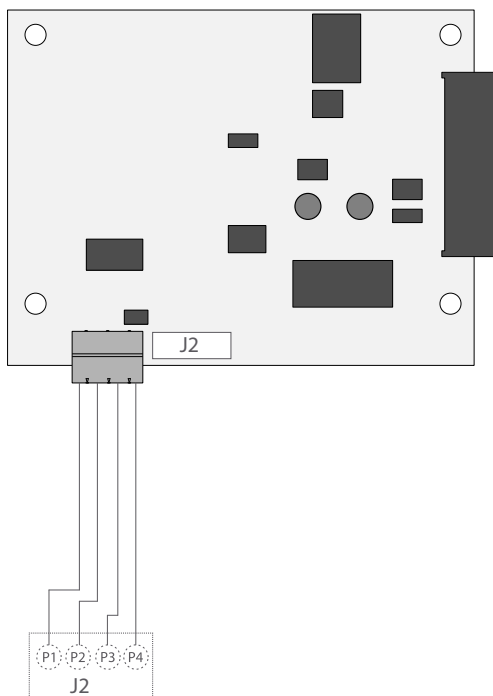
pin 1	RX
pin 2	TX
pin 3	GND

### SCHEME OPTIONAL RS485



pin 1	RTX +
pin 2	RTX -
pin 5	EARTH

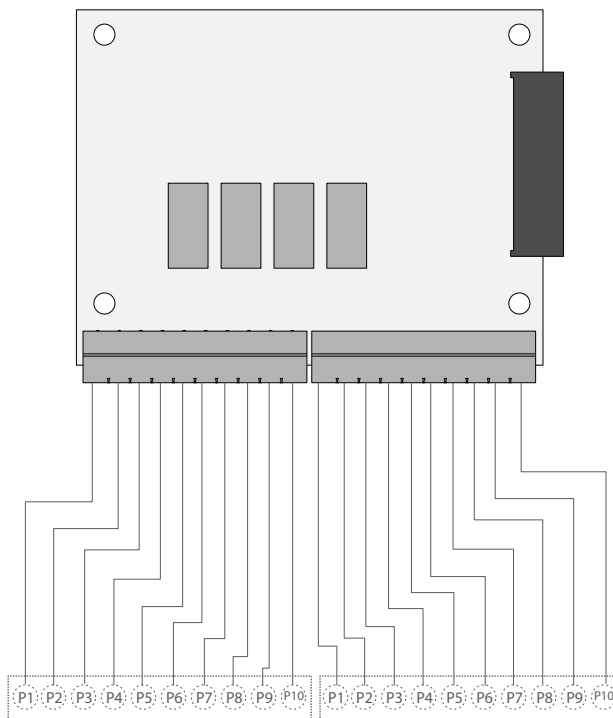
### SCHEME OPTIONAL 4-20MA / 0-10V ANALOG (DB9)



#### CONNECTOR J2

pin 1	$I_{OUT} +$
pin 2	$I_{OUT} -$
pin 3	$V_{OUT} +$
pin 4	$V_{OUT} - (GND)$

### SCHEME OPTIONAL 4E/ES (RELAY)



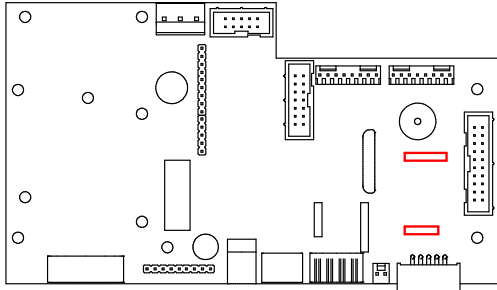
pin 1	RLY1_C	pin 1	IN1 -
pin 2	RLY1_NO	pin 2	IN1 +
pin 3	RLY2_C	pin 3	IN2 -
pin 4	RLY2_NO	pin 4	IN2 +
pin 5	RLY3_C	pin 5	IN3 -
pin 6	RLY3_NO	pin 6	IN3 +
pin 7	RLY4_C	pin 7	IN4 -
pin 8	RLY4_NO	pin 8	IN34+
pin 9	+ 5V <sub>DC</sub>	pin 9	+ 5V <sub>DC</sub>
pin 10	GND	pin 10	GND

# 10. MOUNTING THE OPTIONALS

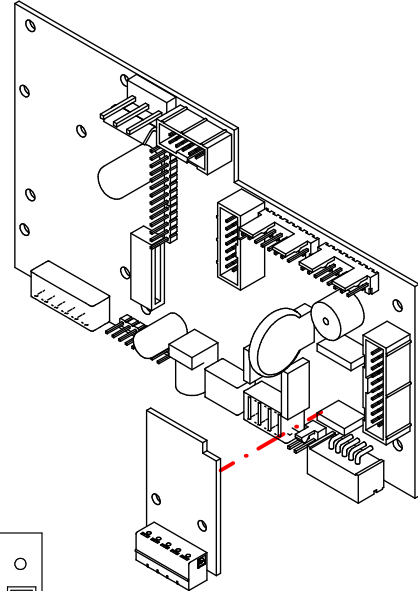
RS485 / IP54

## RS485

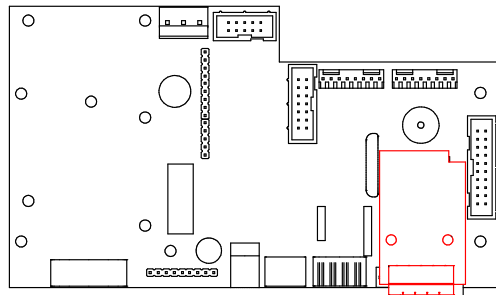
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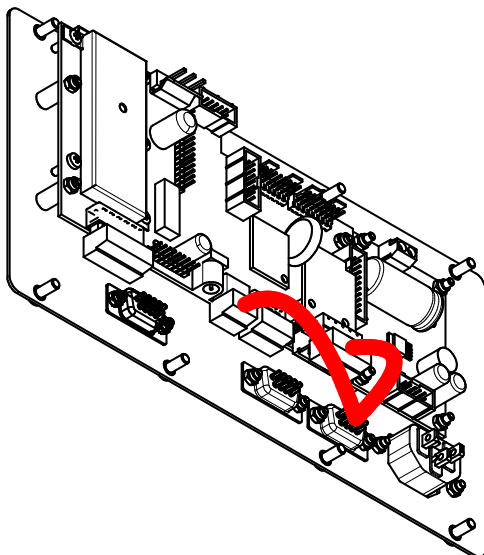
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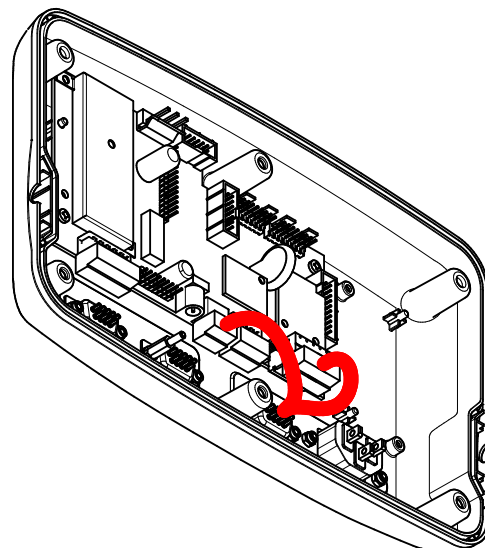
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4.

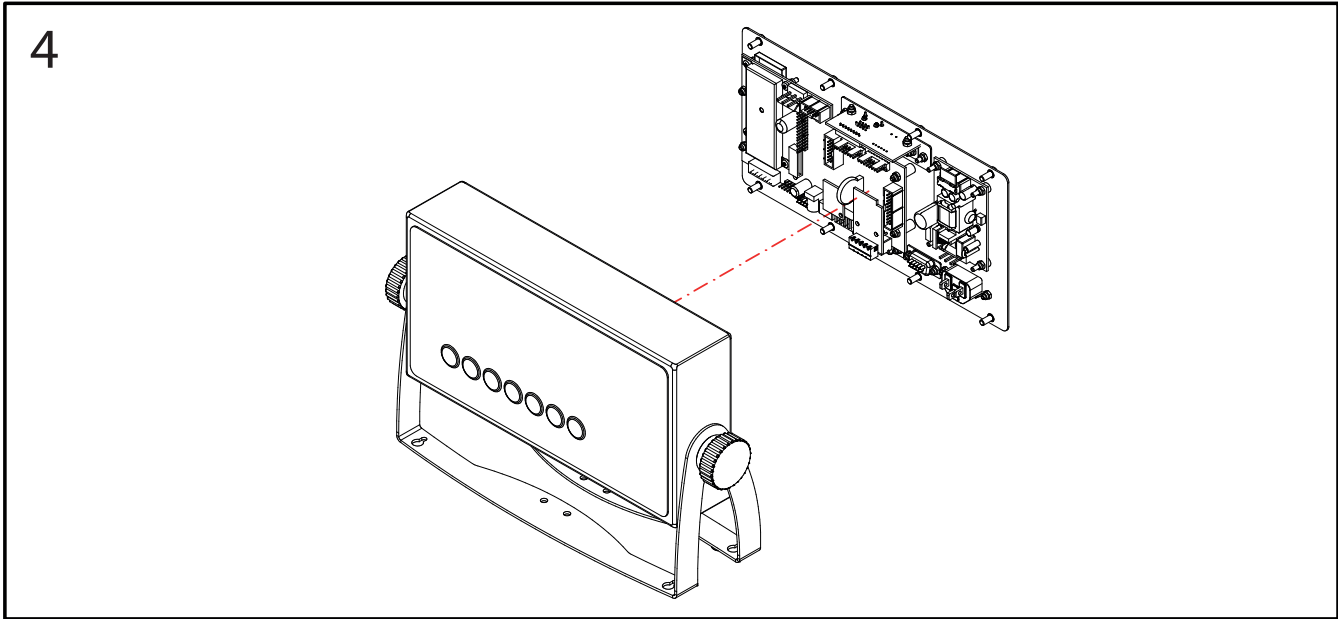
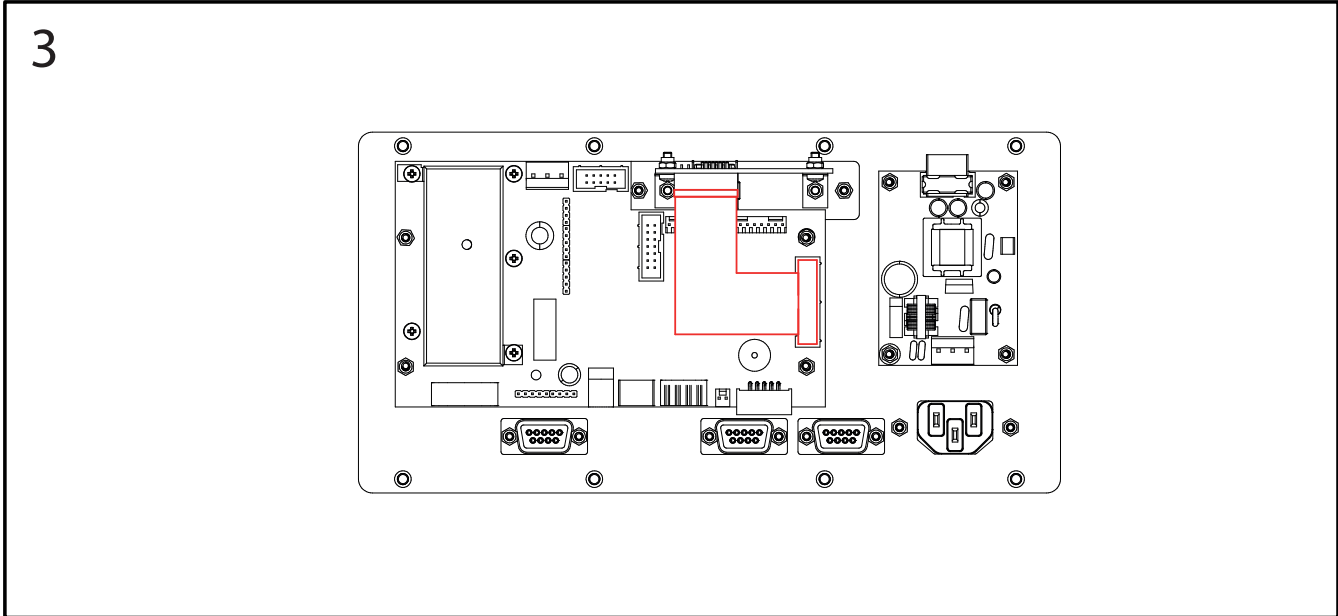
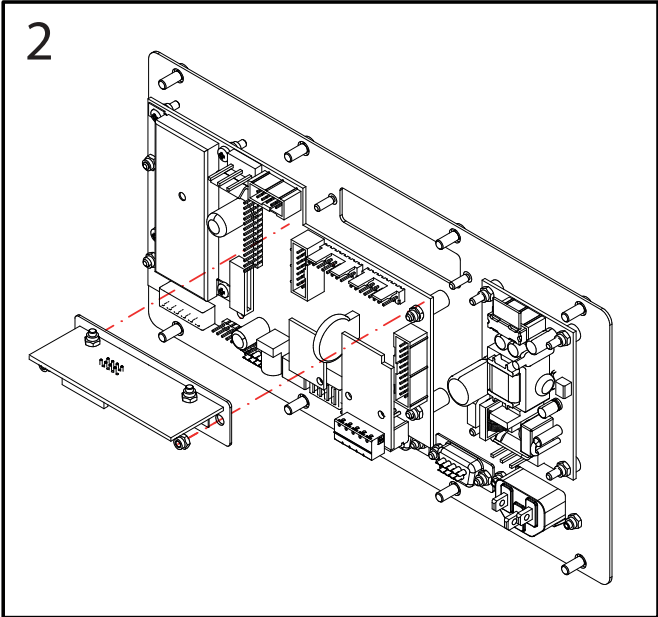
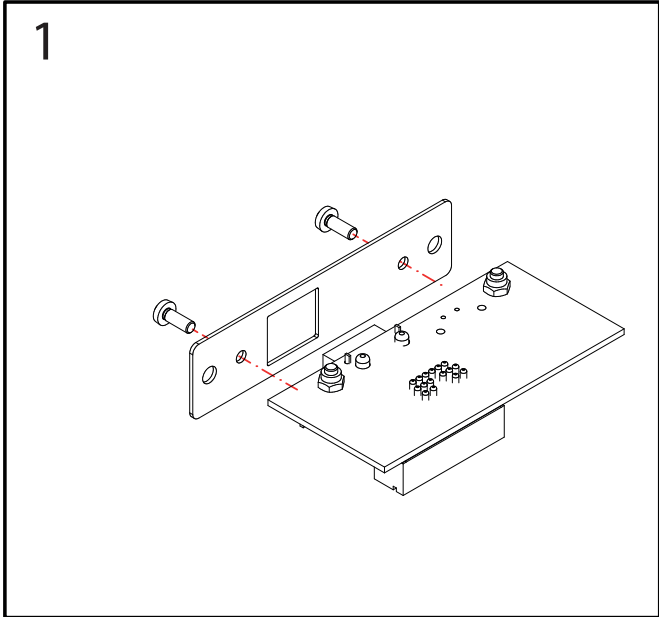


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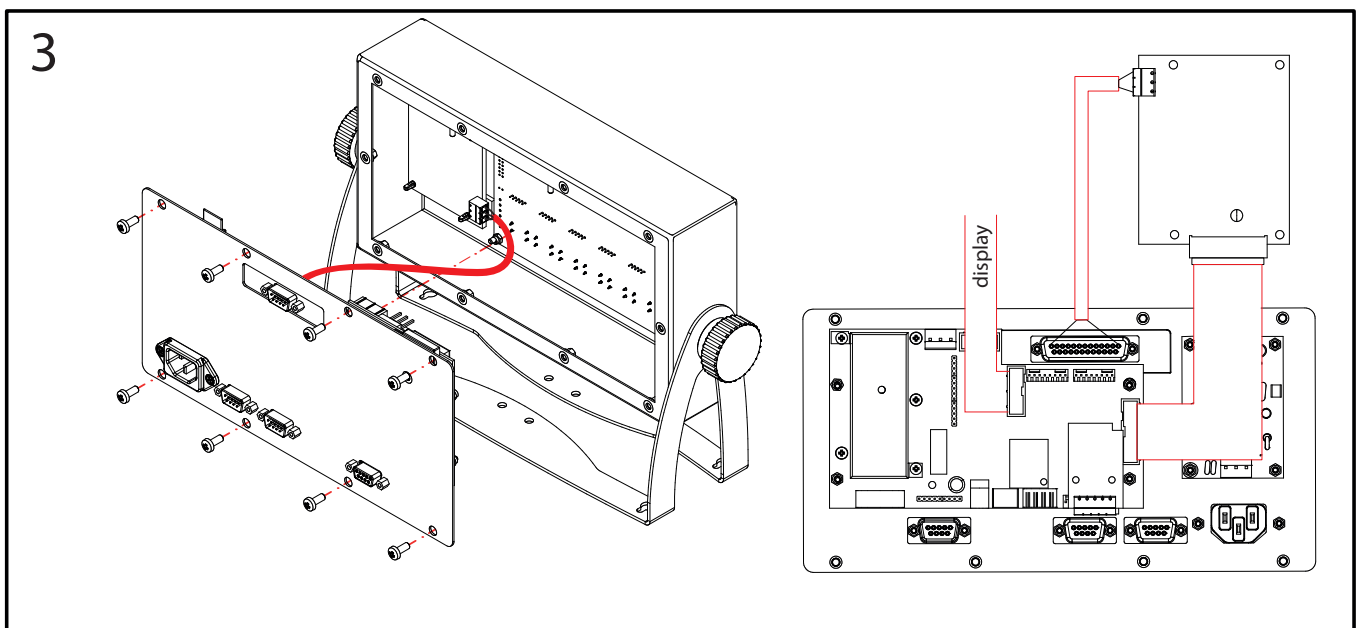
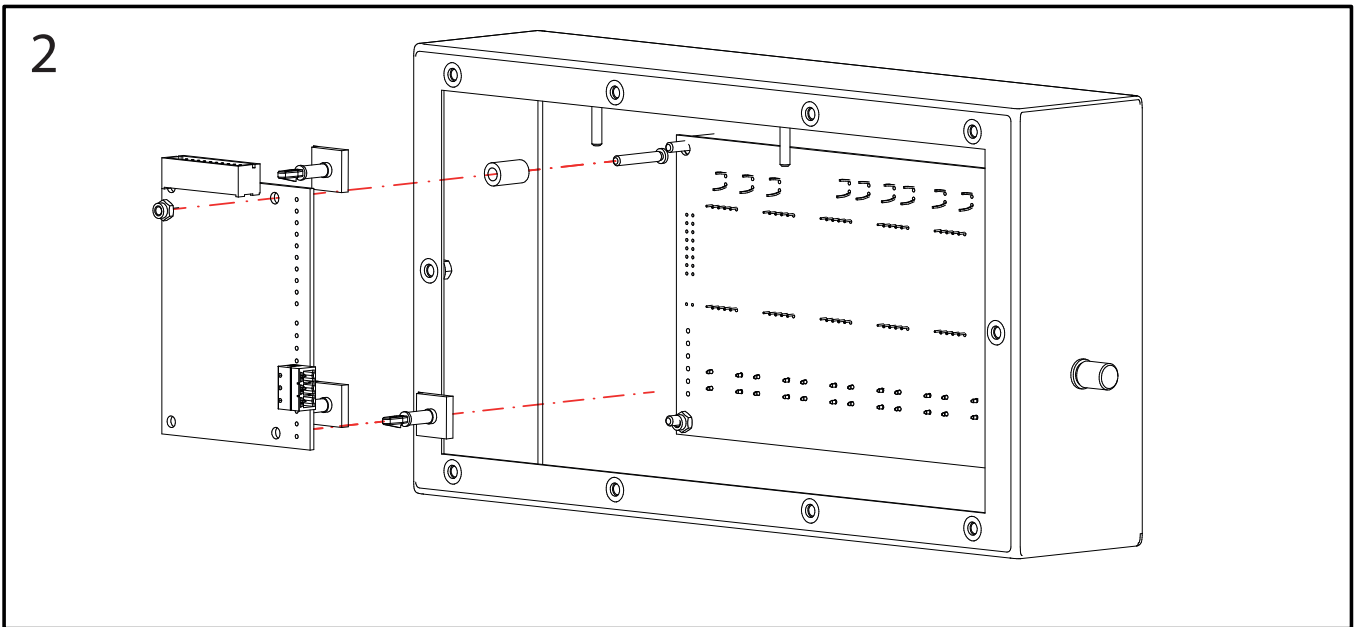
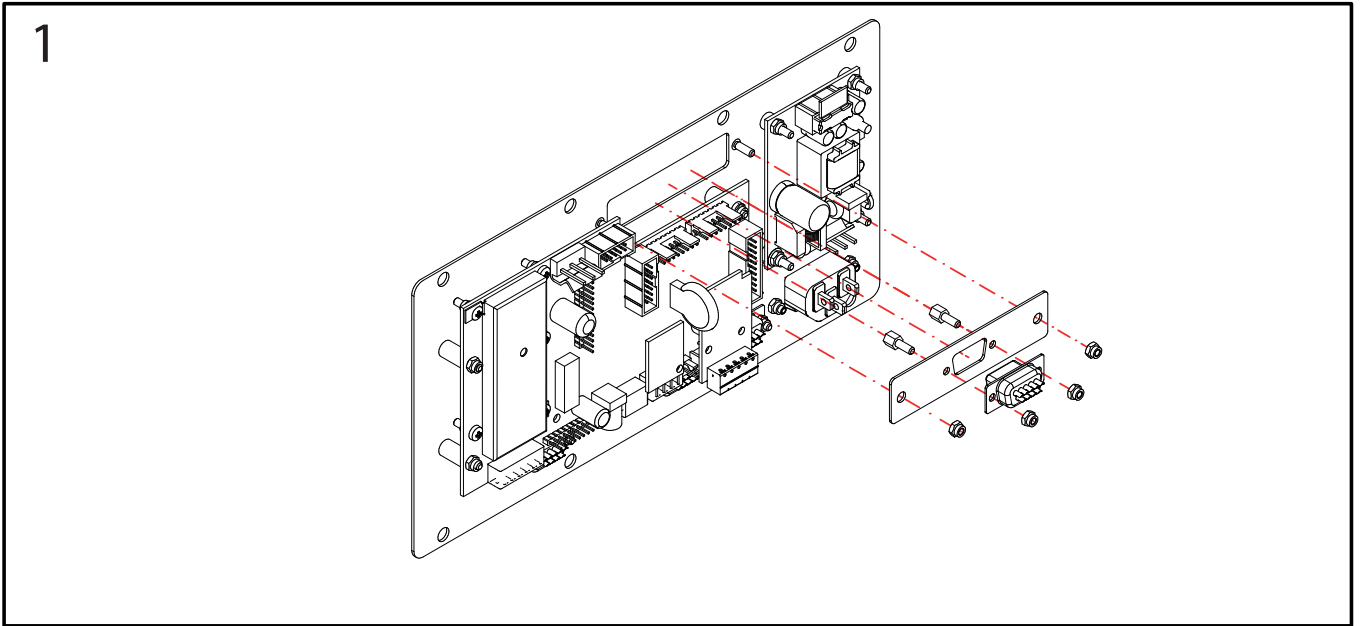




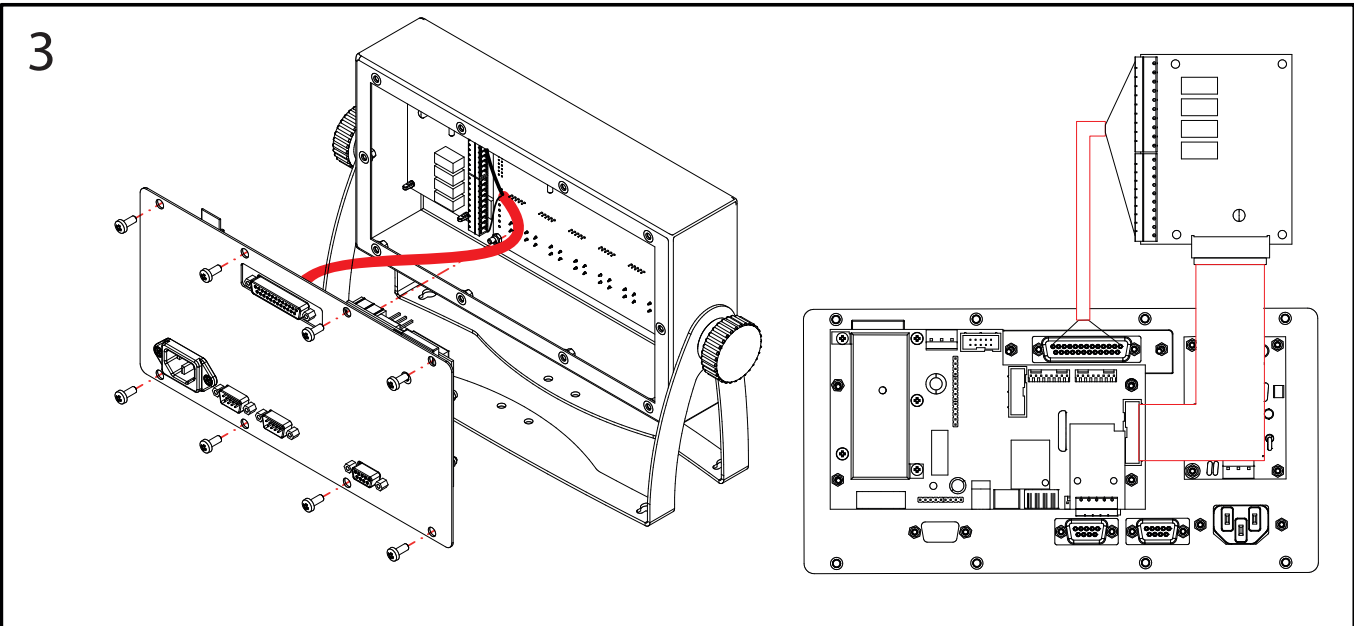
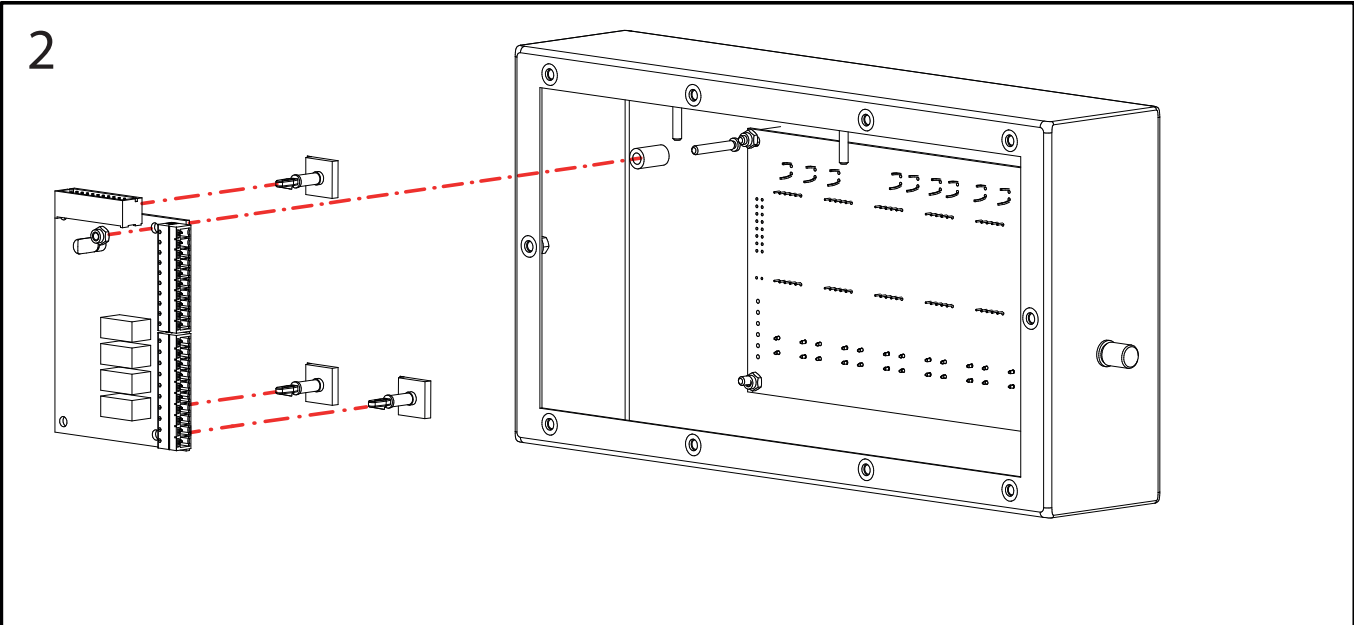
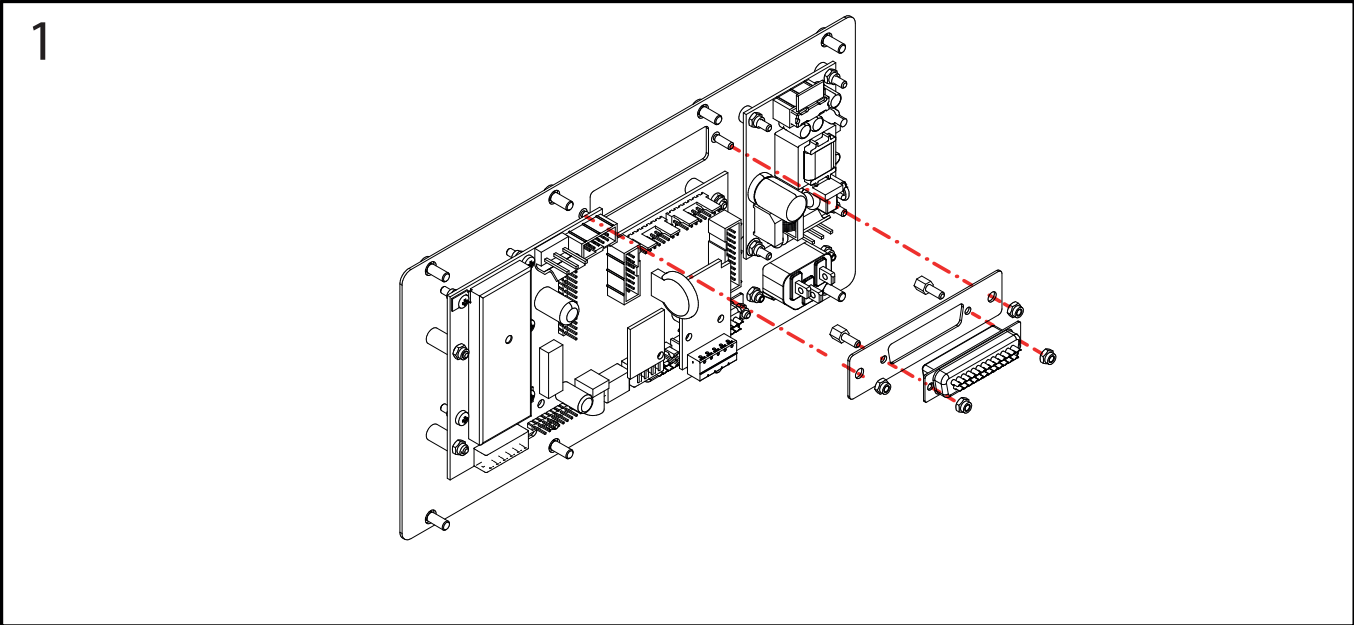
# ETHERNET FOR STAINLESS STEEL CASE IP54



**4-20MA / 0-10V FOR STAINLESS STEEL CASE IP54**



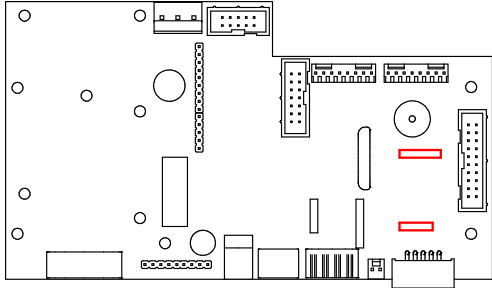
RELAY FOR STAINLESS STEEL CASE IP54



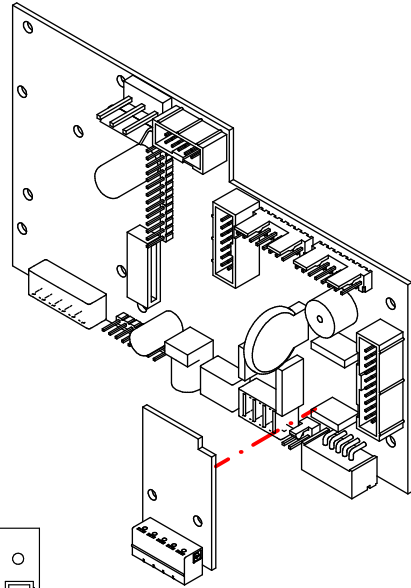
RS485 / IP65

RS485

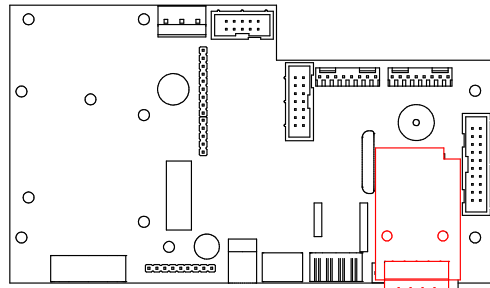
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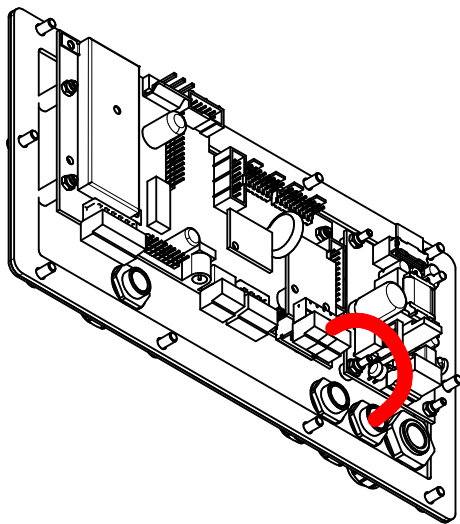
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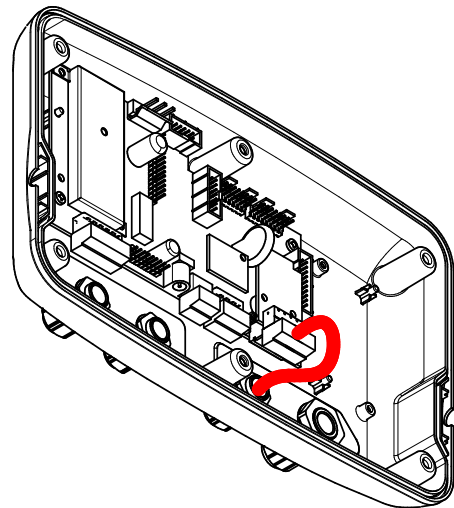
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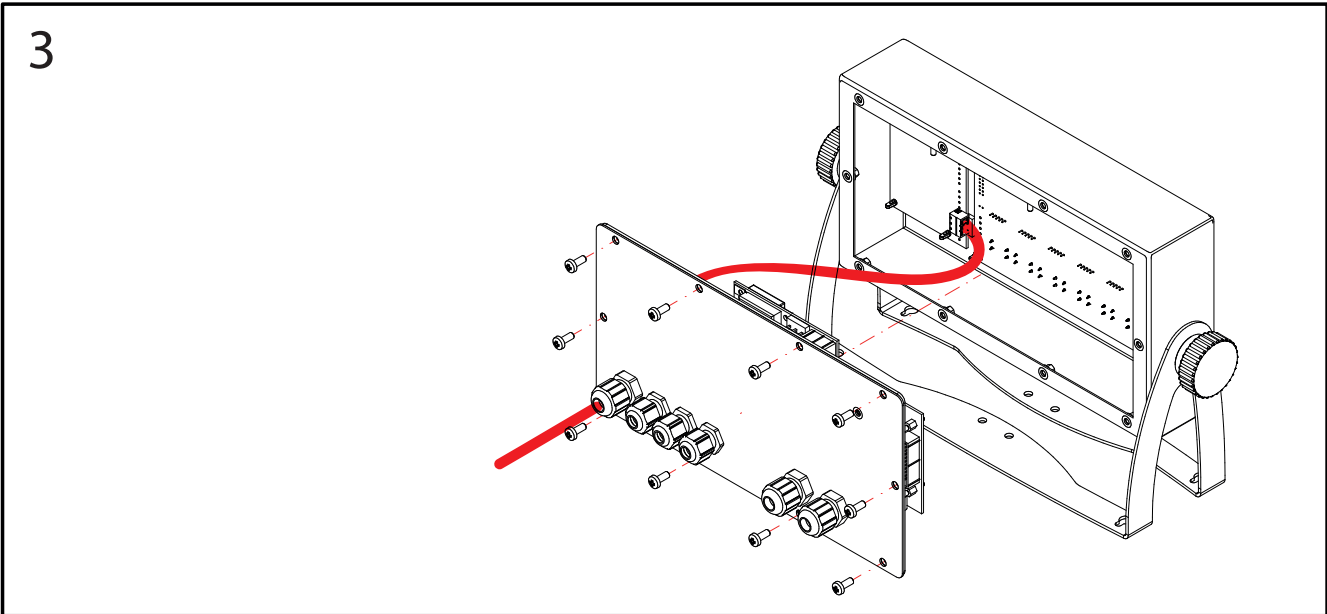
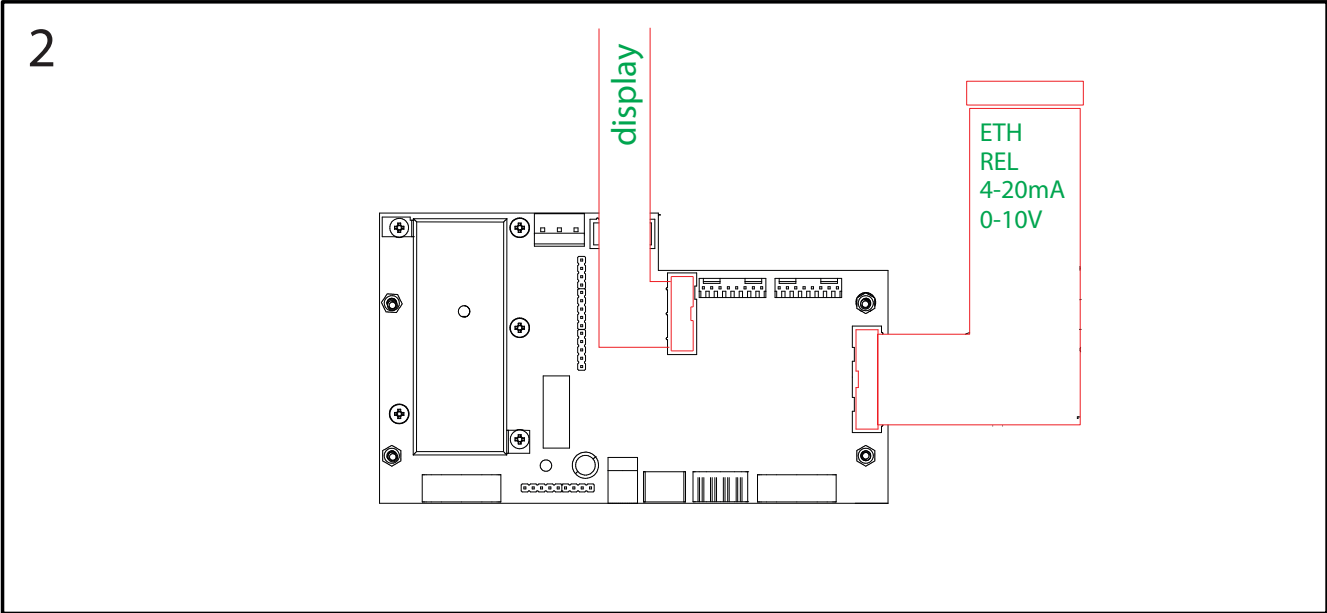
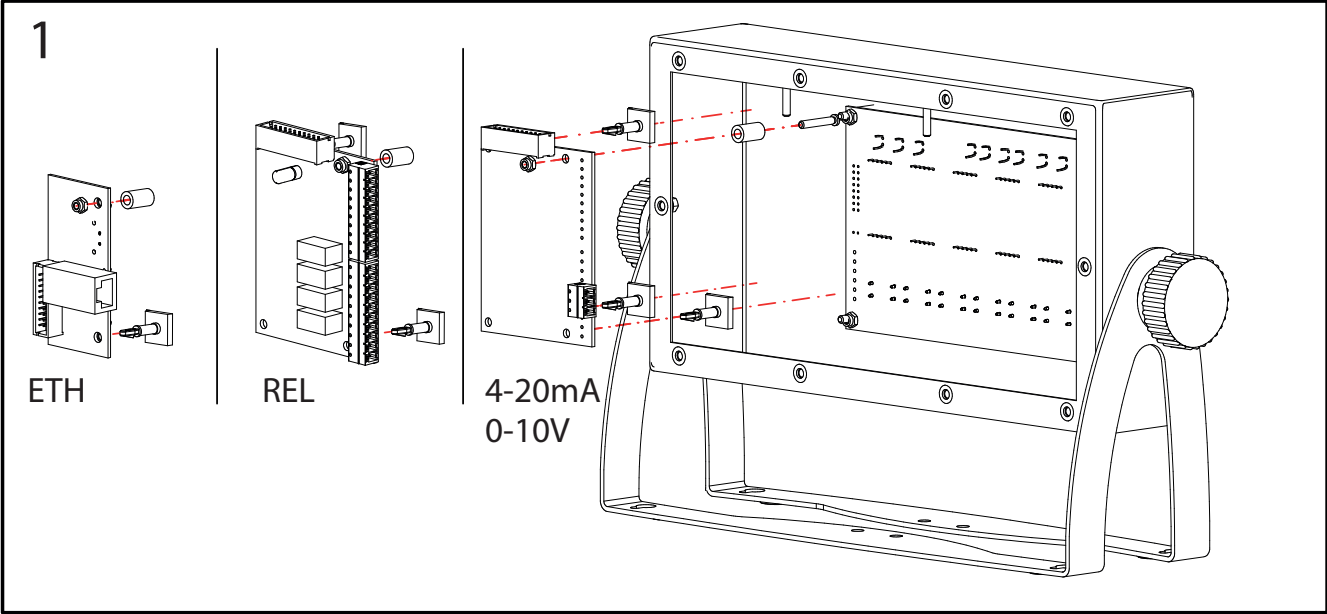
4.



5.



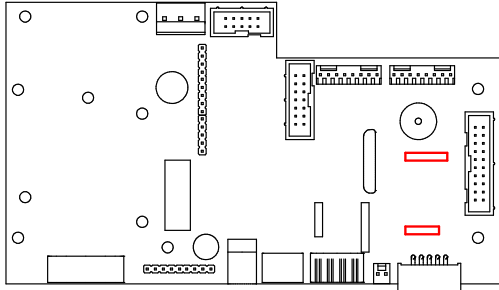
ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP65



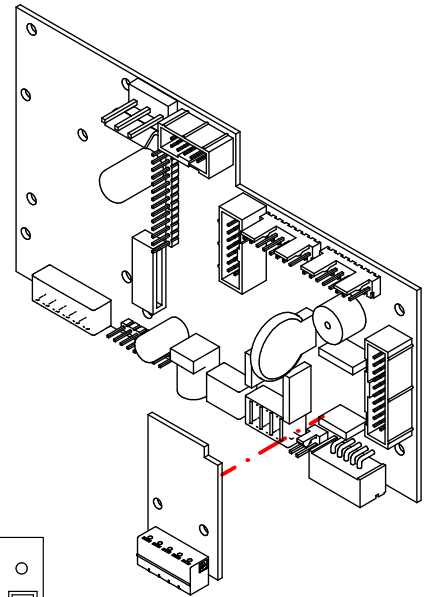
# RS485 / IP68

## RS485

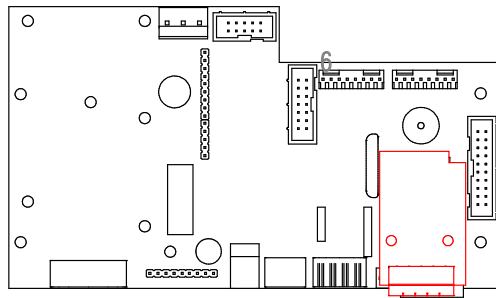
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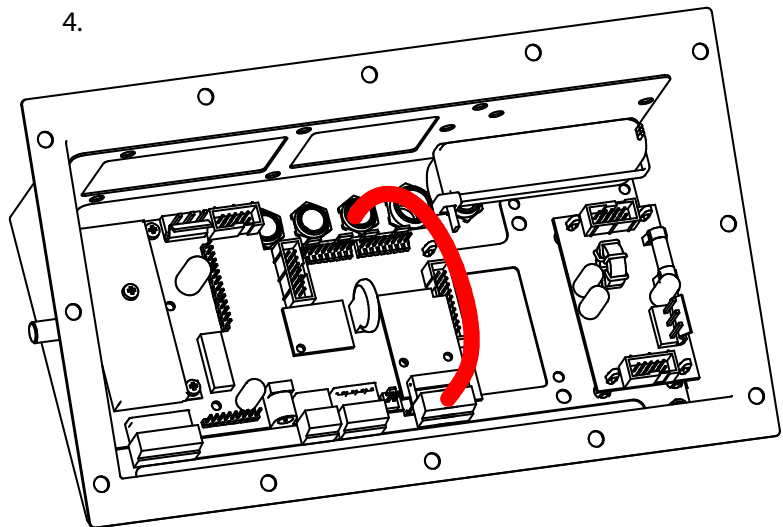
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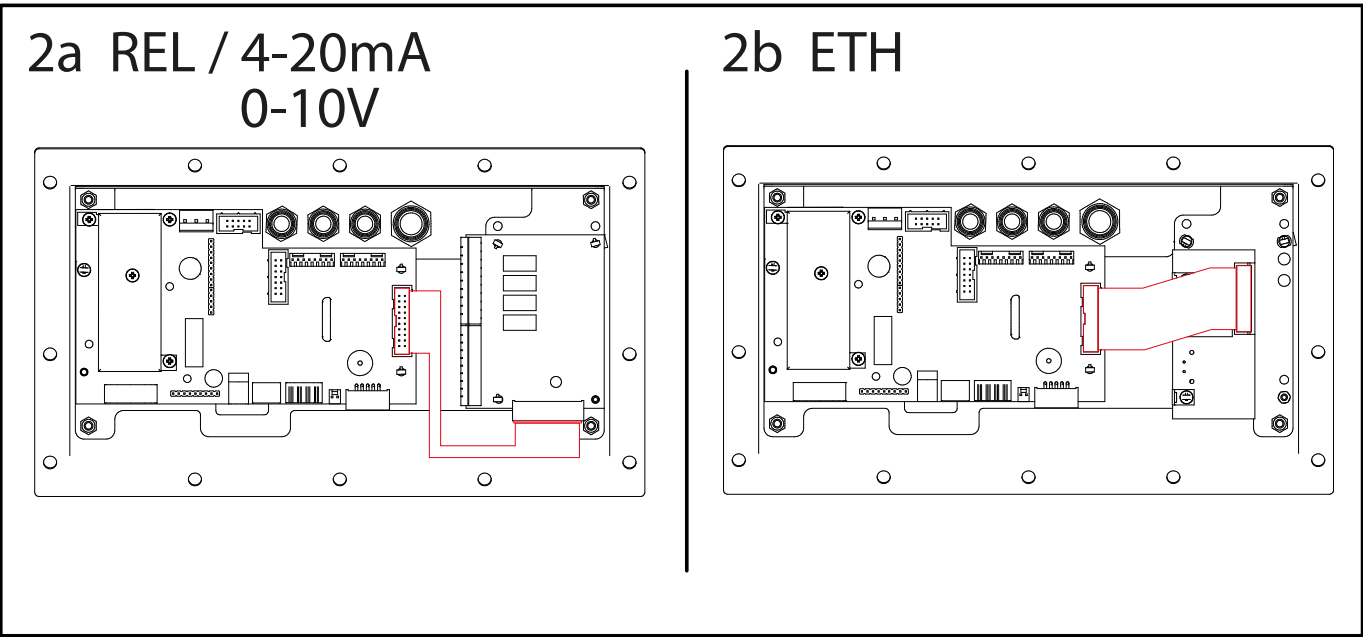
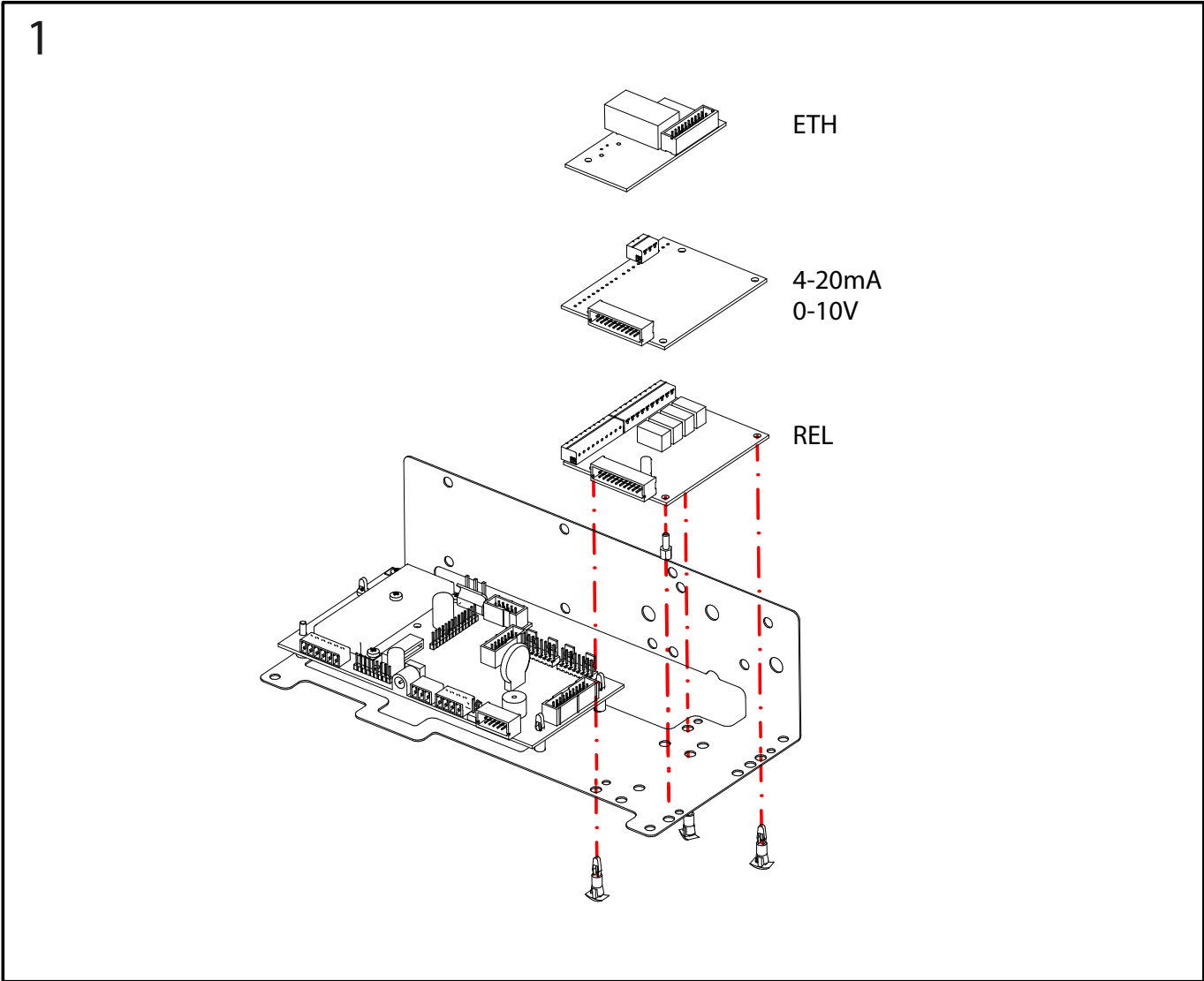
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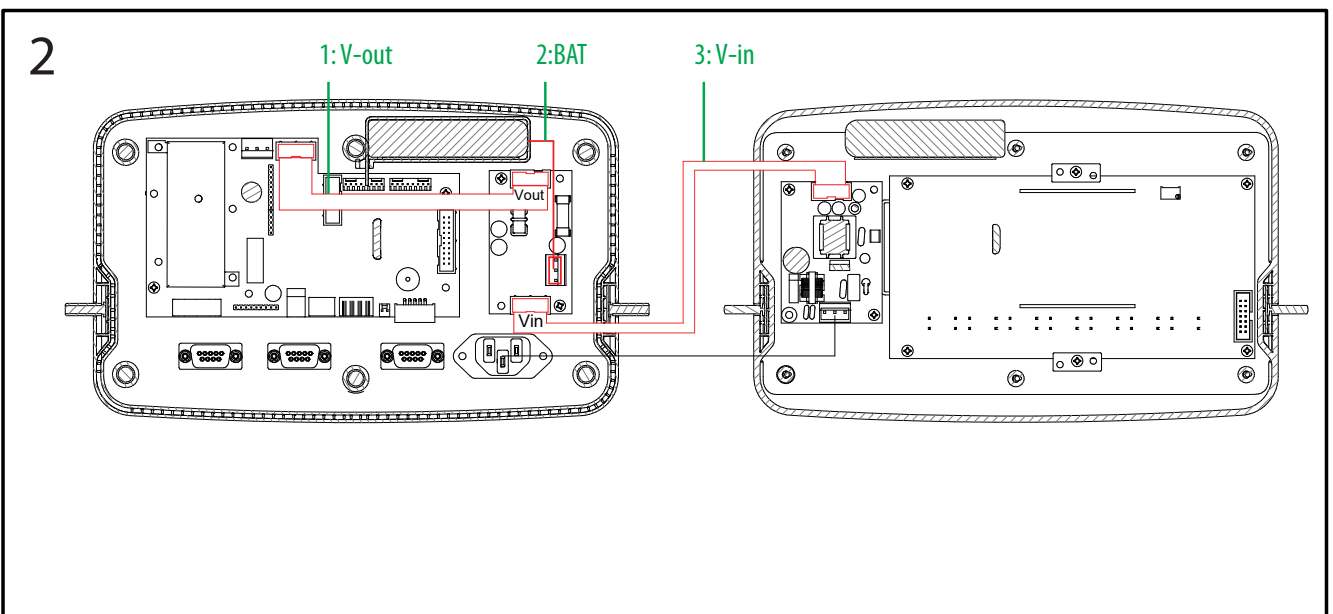
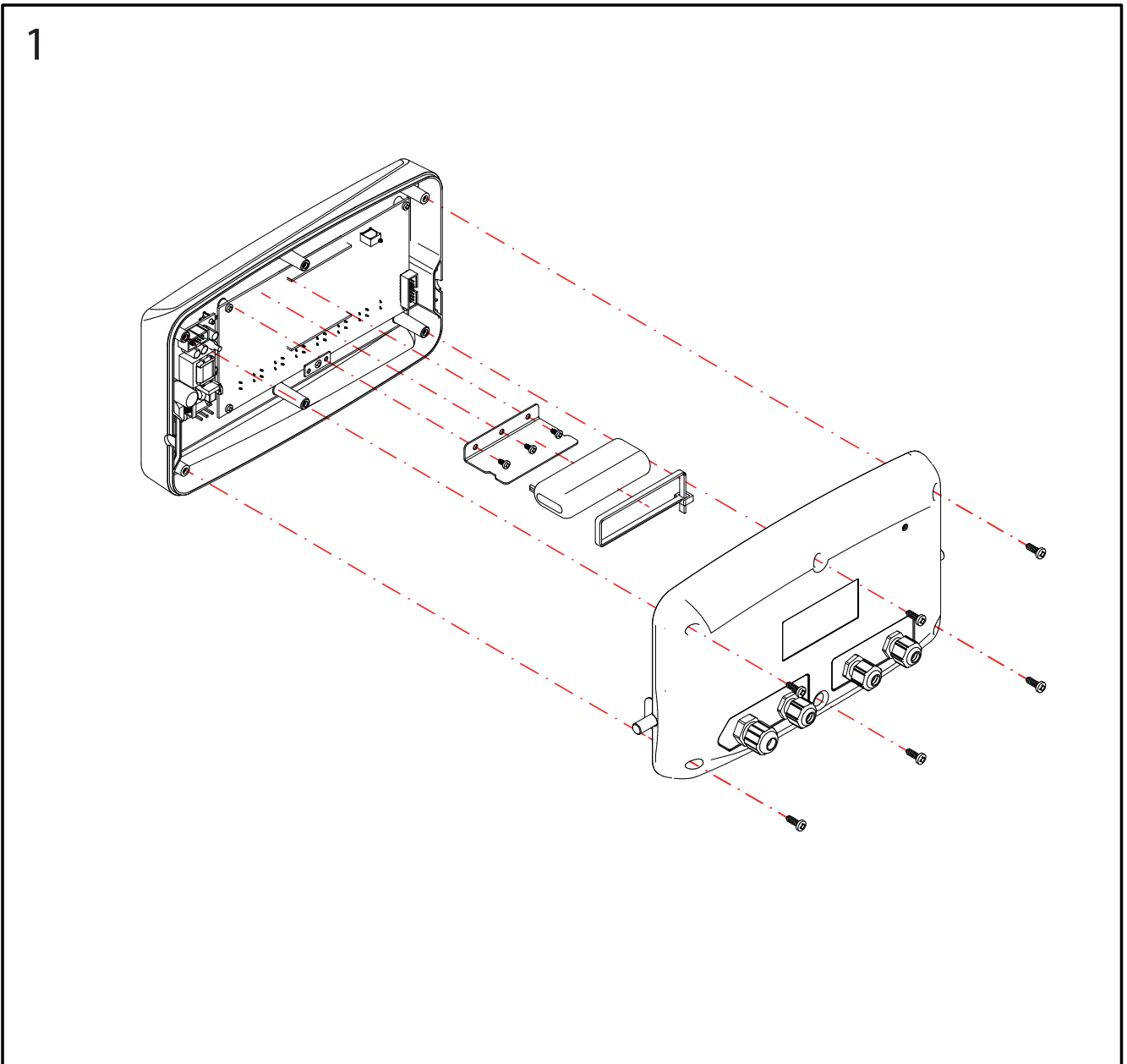
4.



**ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP68**

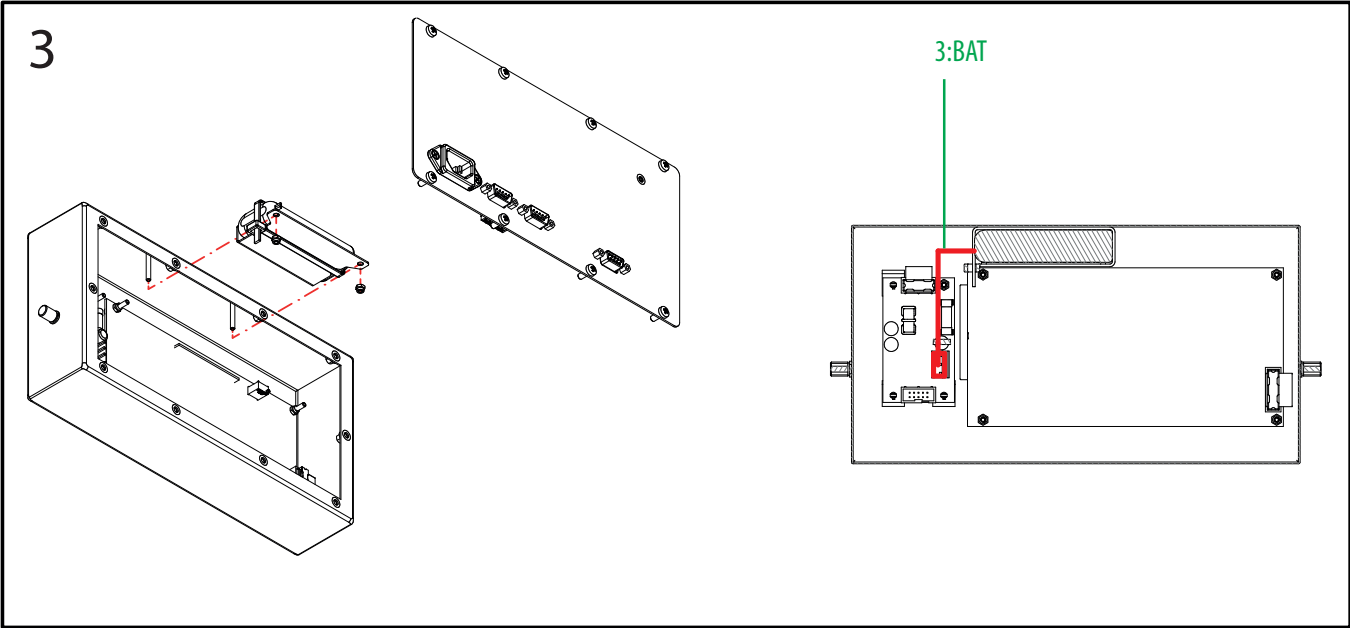
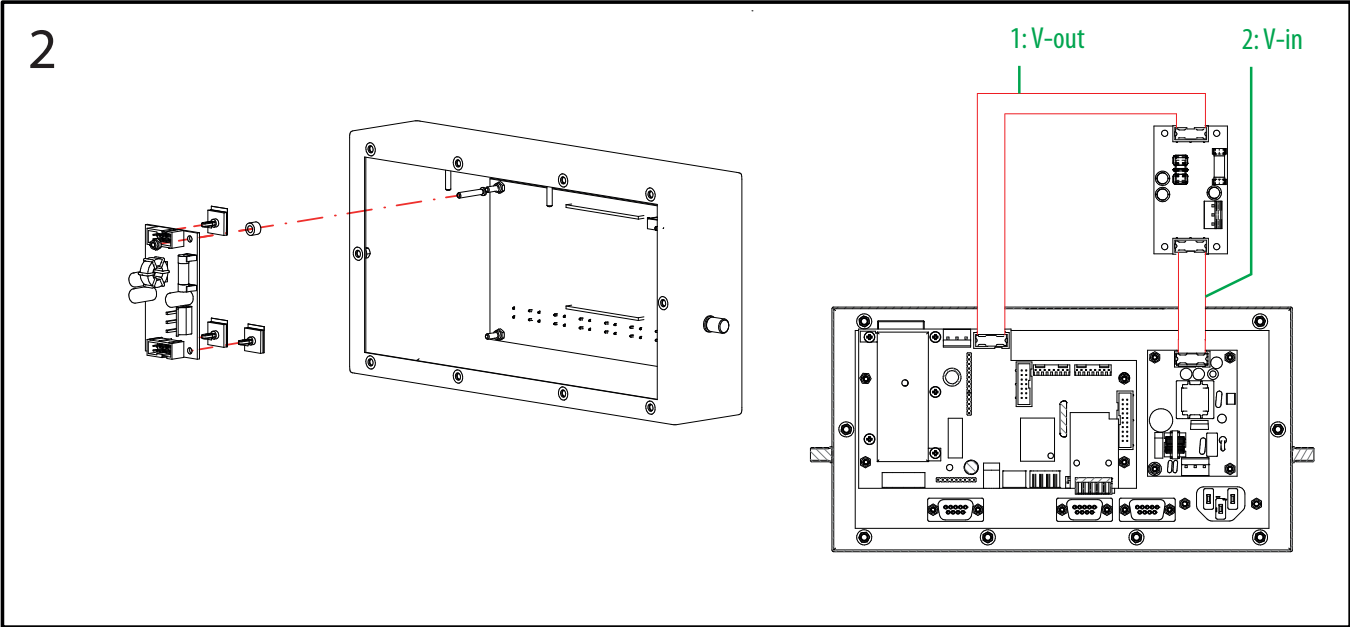
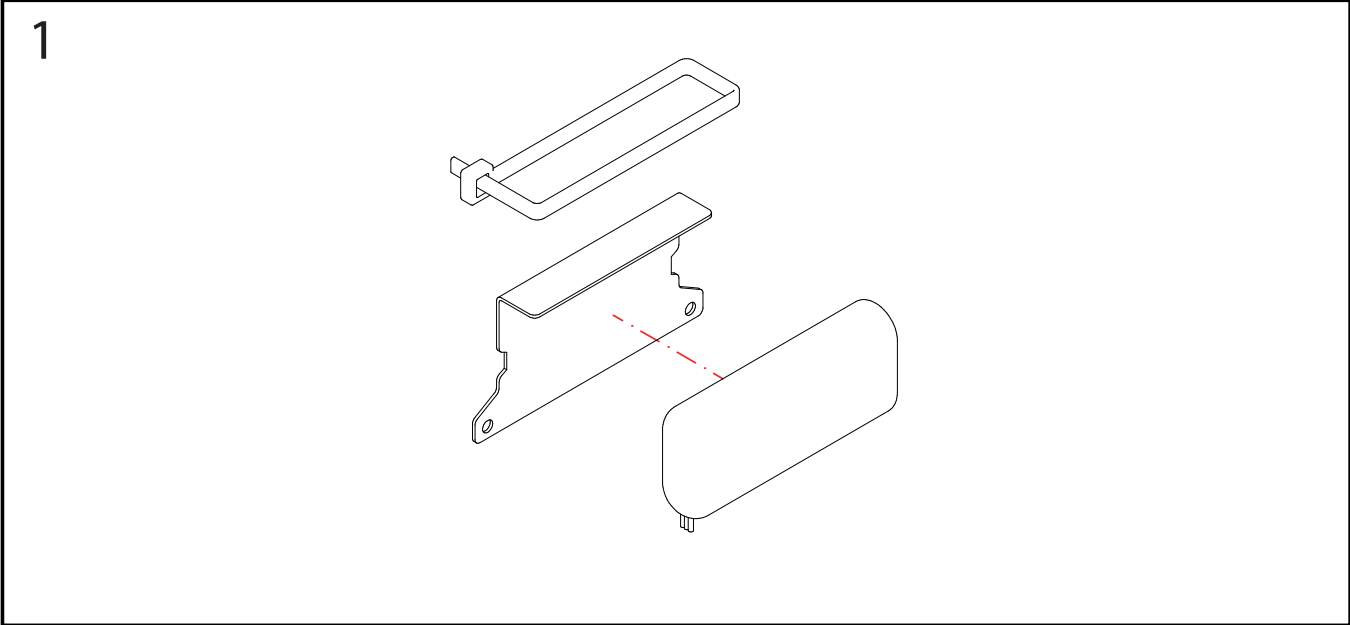


### BATTERY FOR ABS-CASE IP54 OR IP65

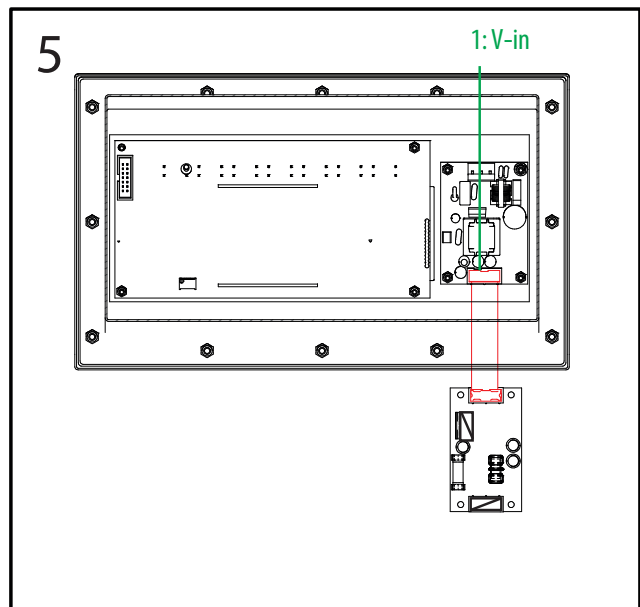
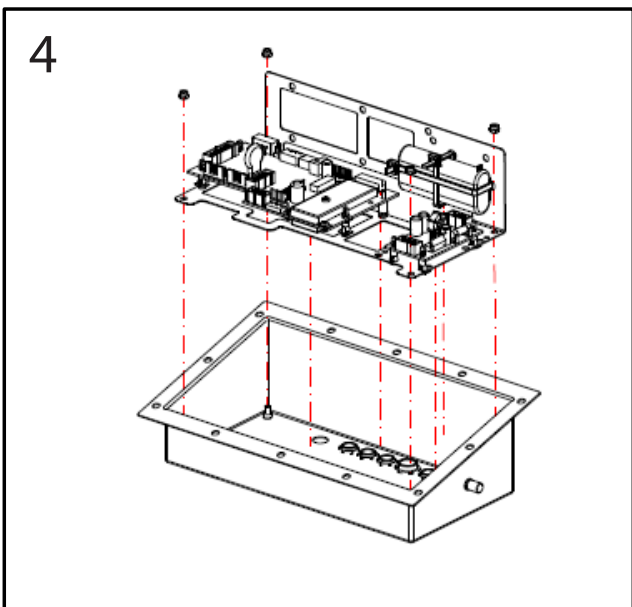
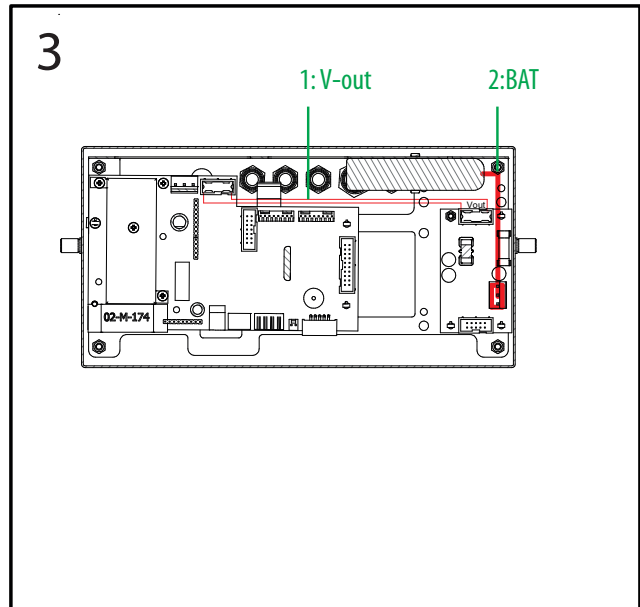
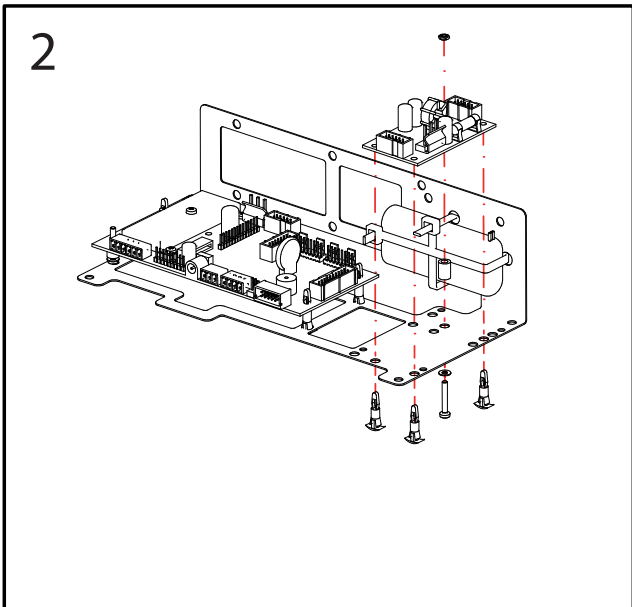
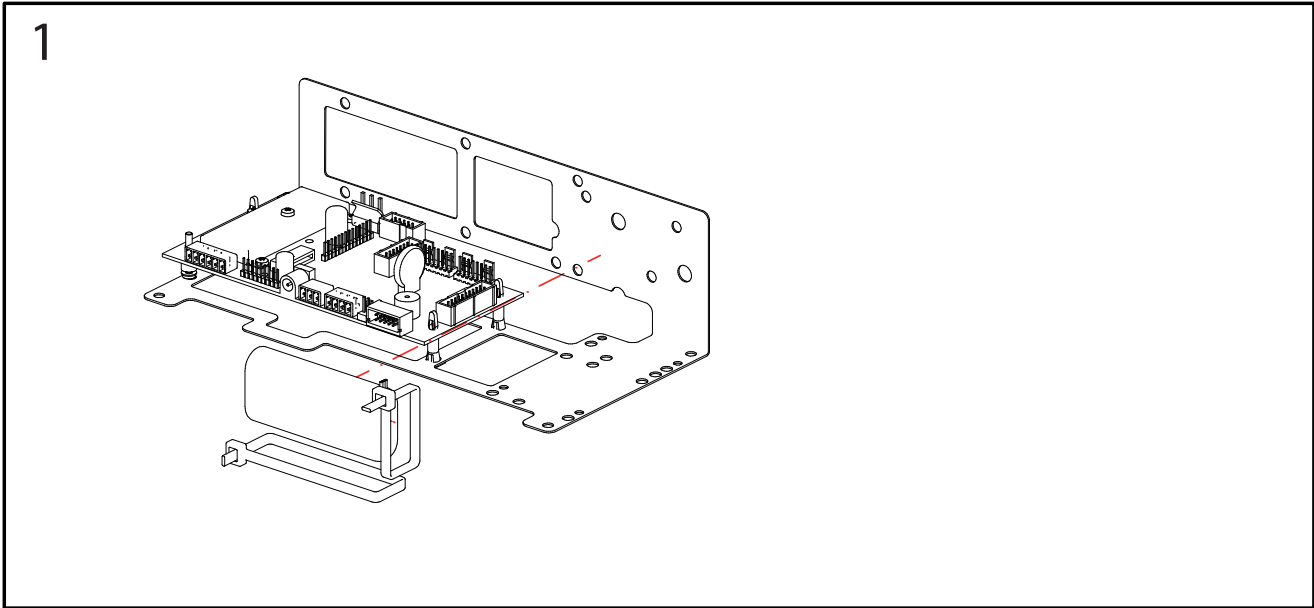




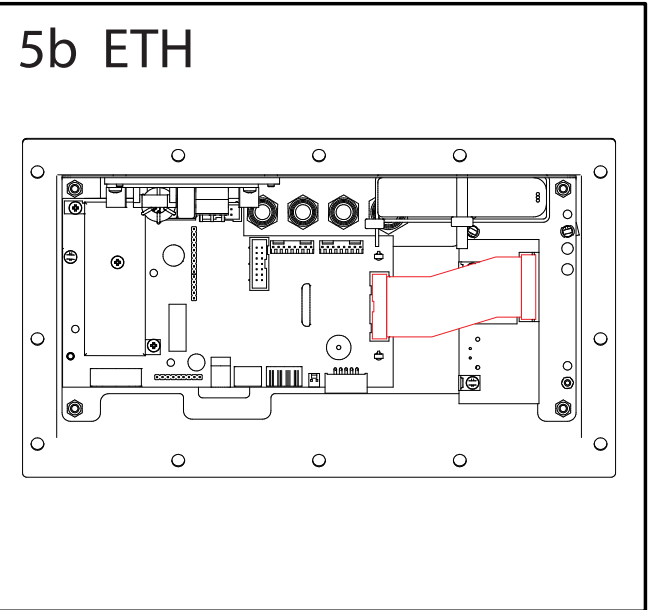
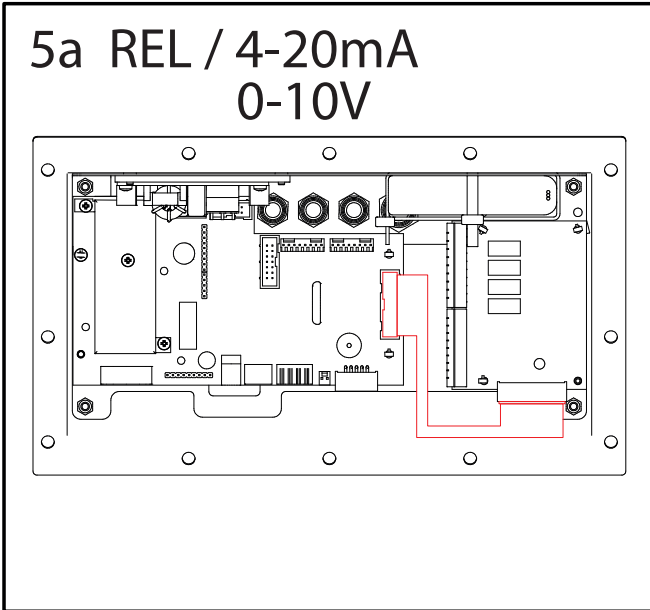
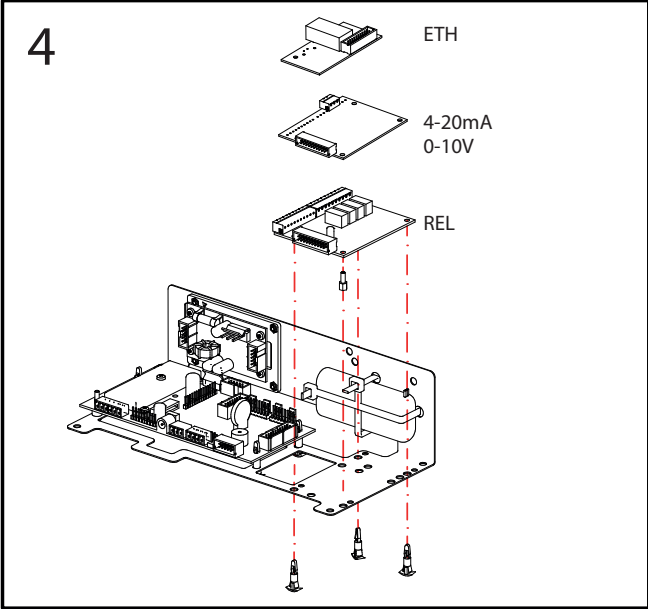
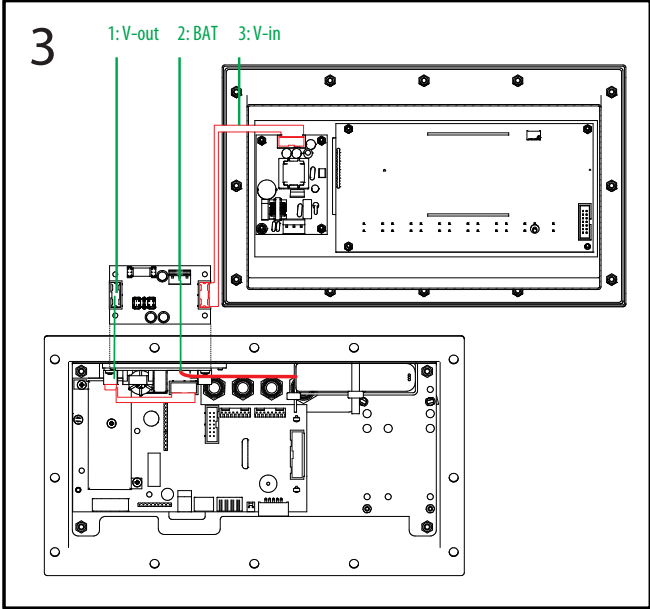
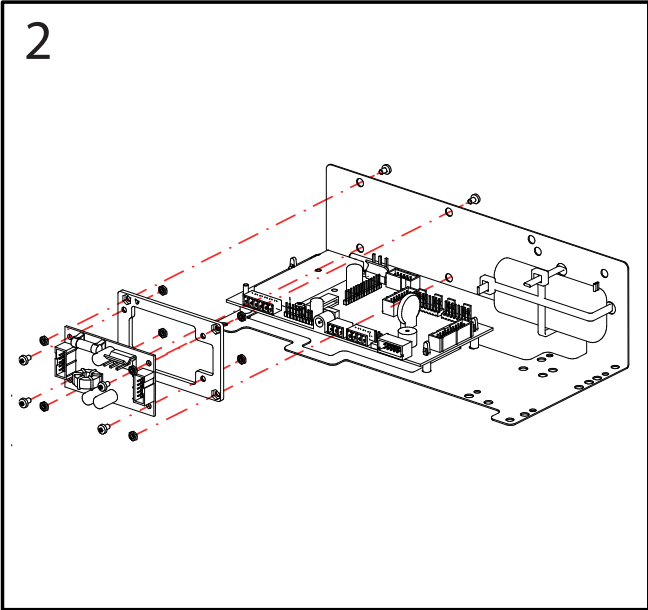
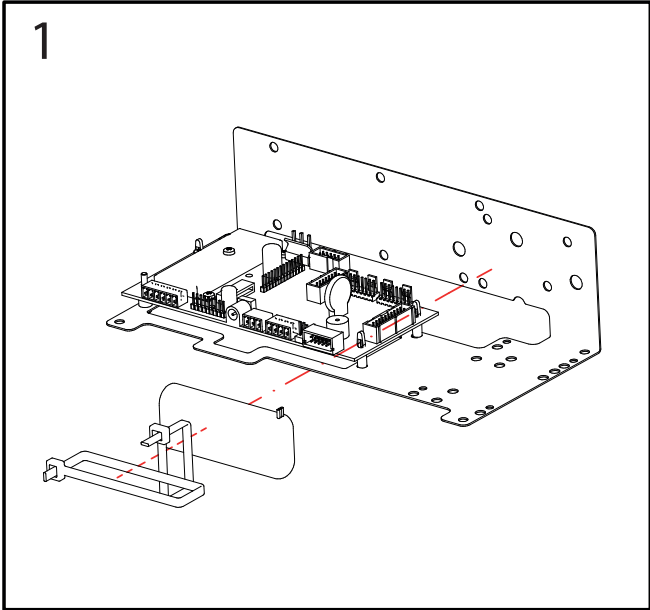
BATTERY FOR STAINLESS STEEL CASE IP54 OR IP65



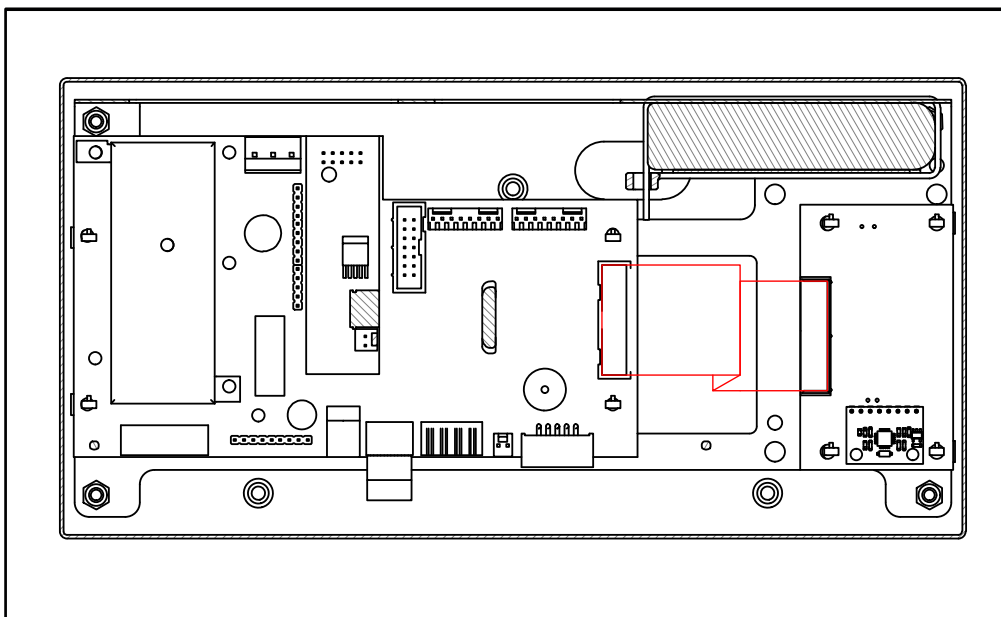
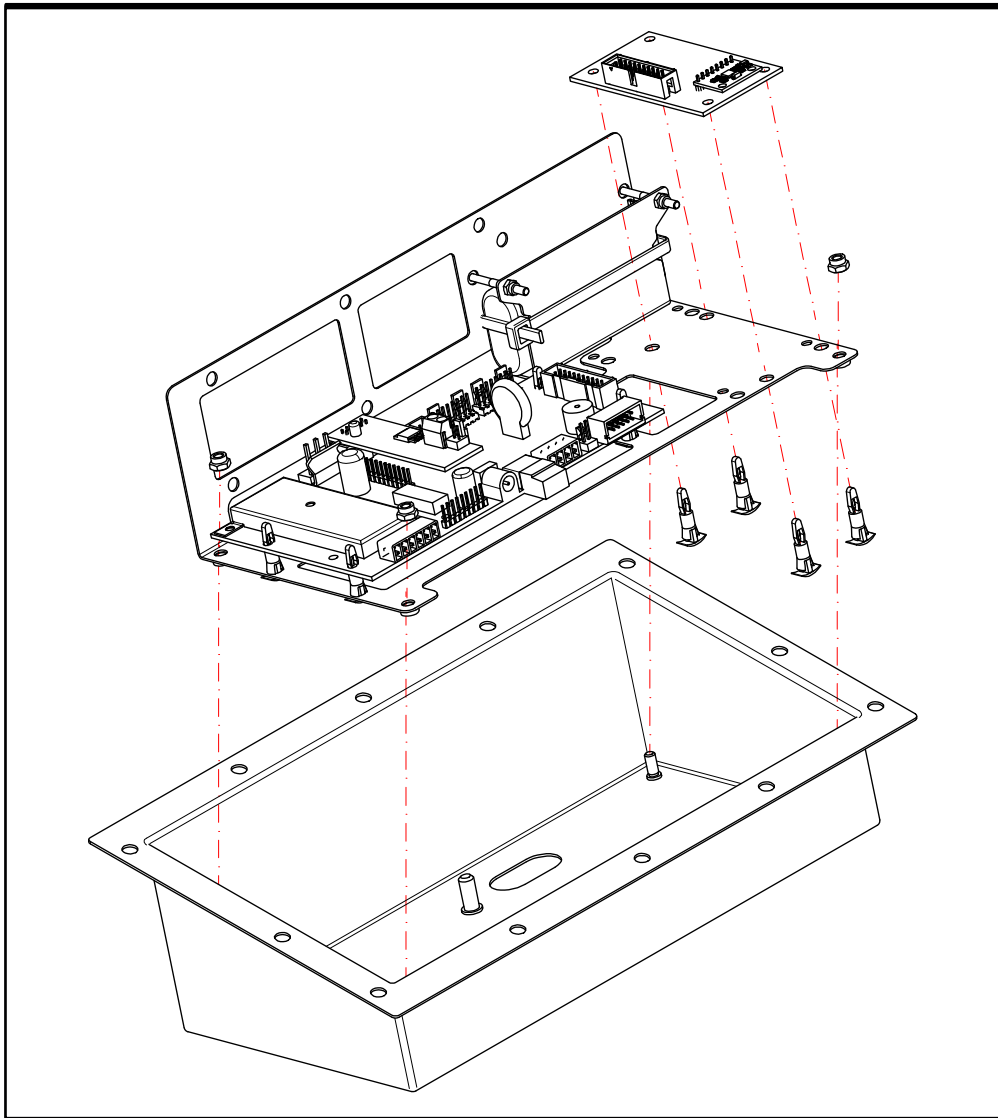
BATTERY FOR STAINLESS STEEL CASE IP68



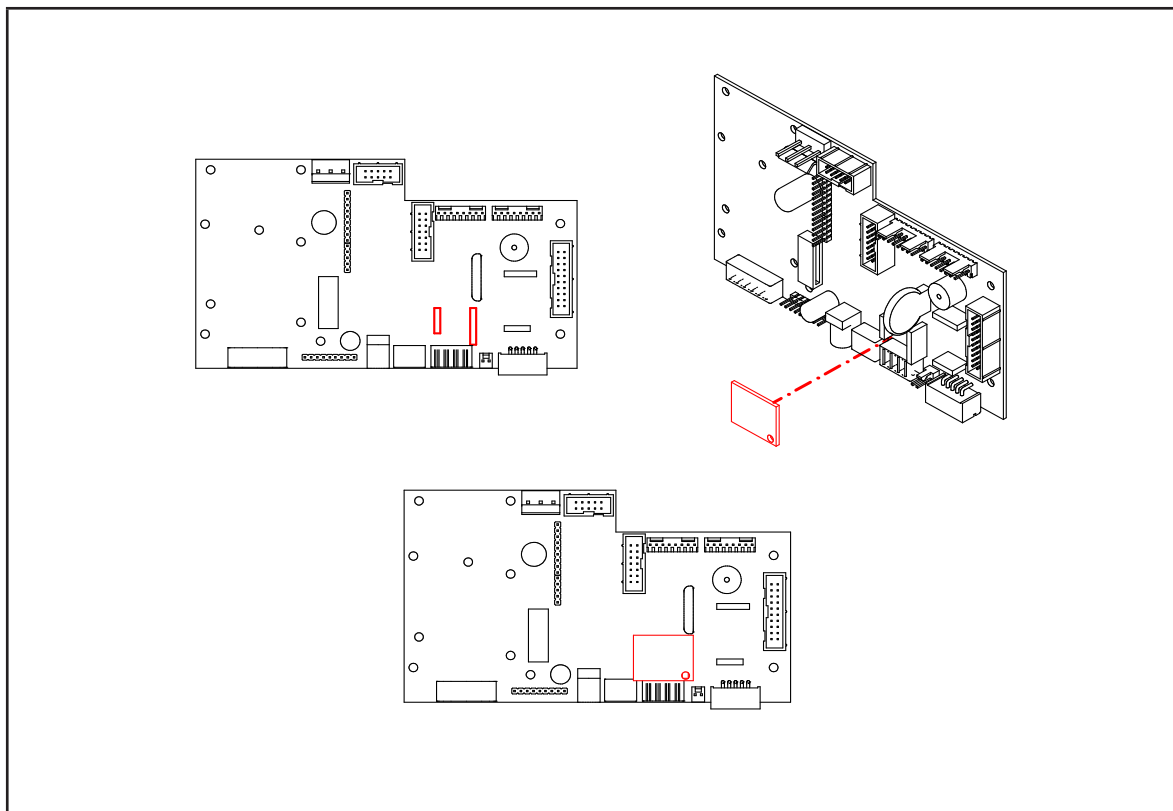
BATTERY + ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP68



# INCLINOMETER FOR TP 410



## 11. DSD-MEMORY



It is possible to increase the Memory of the weight indicator with the additional plate that performs the function of FISCAL MEMORY; this consists in archiving all the weight values transmitted to a computer for a subsequent elaboration or integration of the data transmitted by the serial channel COM / ETHERNET

Each archived value is associated with an ID code. The memorized value can be consulted on the display of the indicator using the ID. (as a control with respect to the data printed by the PC).

The ID has the following format:

<Unique code number> , <weight number>

Unique code number: 5-digit number ranging from 0 to 99,999, indicates the complete unique code number of the dsd memory.

The dsd memory can store a maximum of 400,000 weights, (once this value is reached) the weighing number starts again by 00000 and the unique code number is increased by one.

The relative weight of an ID can be verified only if:

it has a unique code number equal to the current one in the dsd memory and a weighing number less or equal to the last value received with the "PID" command.

## 12. REMOVAL OF ELECTRONIC EQUIPMENT



For the European Union customers:

All the products that arrived at the end of their respective circle of life, have to be returned to the constructor in order to be recycled. For information on refund procedures contact the reseller or the builder

## 13. OPTIONAL BATTERY

The GI400 has three battery indications via LED or LCD screen.



HIGH battery level between **100% and 70%**



MEDIUM battery level between **70% and 40%**



**Battery level less than 40%**, you must connect the equipment immediately to the power supply



- During the charging on LCD devices
- During the charging in LED devices, turn on HIGH level and LOW level at the same time.

## 14. WARRANTY

This device is guaranteed against all manufacturing and material defects, for a period of 1 year from the date of delivery. During this period, GIROPÈS will take over the repair of the viewer.

This warranty does not include damages caused by improper use or overloading.

The guarantee does not cover the shipping costs (postage) necessary for the repair of the balance.



**GIROPES**)

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