

# GI/TP/HPP 4XX

## USER MANUAL

**EN**

**INDUSTRIAL WEIGHING INDICATOR**

V.7.2  
05/02/2024



GI 41X series



HPP



TP 410 series



GI 410 Print

# GIROPES

Pol. Empordà Internacional Calle Molló, 3  
17469 VILAMALLA - (Girona) SPAIN  
T. (34) 972 527 212

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**EN**

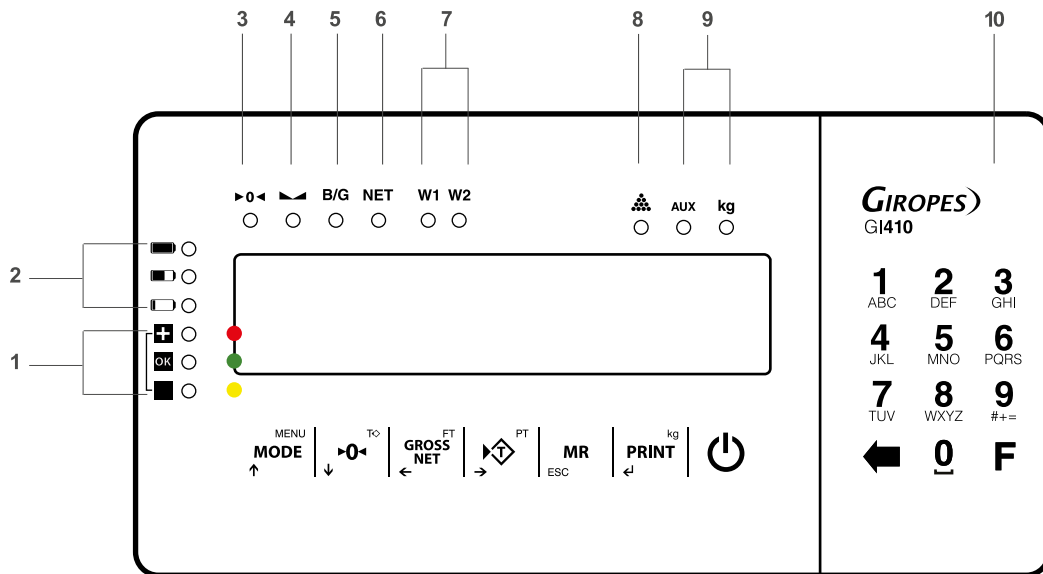
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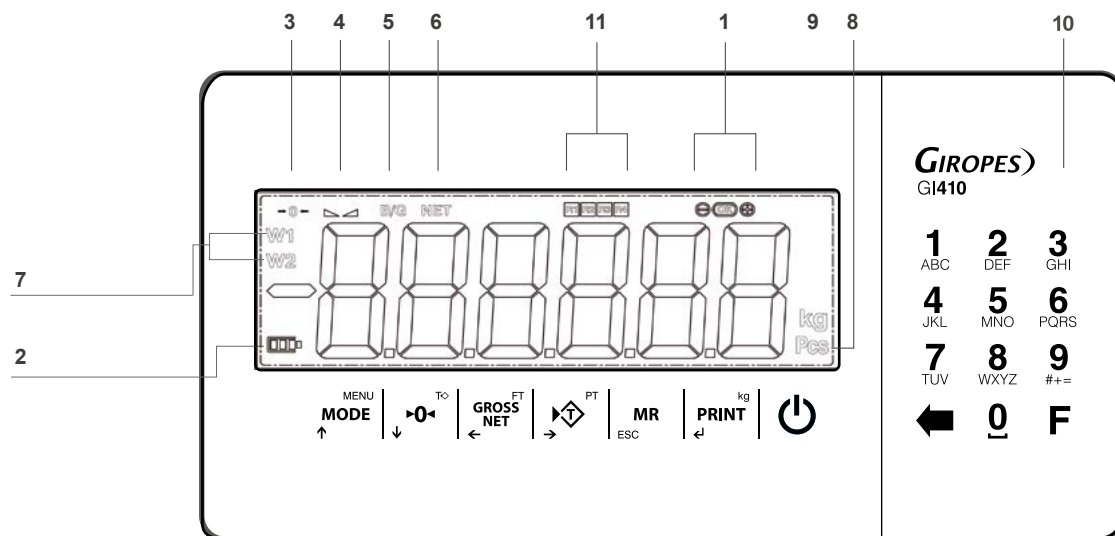
# 1. MECHANICAL DESCRIPTION

## 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

MENU FUNCTION			
KEY			DESCRIPTION
<b>F</b>	<b>1</b>	<b>0</b>	Acces to code 1 edit menu
<b>F</b>	<b>1</b>	<b>1</b>	Activate code 1
<b>F</b>	<b>1</b>	<b>2</b>	Deactivate code 1
<b>F</b>	<b>2</b>	<b>0</b>	Acces to code 2 edit menu
<b>F</b>	<b>2</b>	<b>1</b>	Activate code 2
<b>F</b>	<b>2</b>	<b>2</b>	Deactivate code 2
<b>F</b>	<b>3</b>	<b>0</b>	Enters the programmed tares editing menu
<b>F</b>	<b>3</b>	<b>1</b>	Activate Tare
<b>F</b>	<b>3</b>	<b>2</b>	Disable Tare
<b>F</b>	<b>4</b>	<b>0</b>	View weighing information.
<b>F</b>	<b>4</b>	<b>1</b>	Configuration of the desired type of warning when filling 80% of the weighing buffer.
<b>F</b>	<b>5</b>	<b>0</b>	Shows the total weights associated with Code 1
<b>F</b>	<b>5</b>	<b>1</b>	Shows the total weights associated with Code 2
<b>F</b>	<b>6</b>	<b>0</b>	Print total weight with or without memory clear
<b>F</b>	<b>6</b>	<b>1</b>	Print list of filtered weighings, by Code 1 or Code 2, and by Date
<b>F</b>	<b>6</b>	<b>2</b>	Prints the information of one or several Codes 2
<b>F</b>	<b>6</b>	<b>3</b>	Prints the information of one or several Codes 1
<b>F</b>	<b>7</b>	<b>0</b>	Clears Code 1 Totals or Code 1 Completely
<b>F</b>	<b>7</b>	<b>1</b>	Clears totals for Code2 or Code2 completely
<b>F</b>	<b>7</b>	<b>2</b>	Deletes a programmed tare
<b>F</b>	<b>7</b>	<b>3</b>	Delete the weight table
<b>F</b>	<b>7</b>	<b>4</b>	Deletes everything in general, Code 1, Code 2, tares and weight table
<b>F</b>	<b>7</b>	<b>5</b>	Allows you to modify the password to access the deleted menu
<b>F</b>	<b>7</b>	<b>6</b>	PLU 1 Factory
<b>F</b>	<b>7</b>	<b>7</b>	PLU 2 Factory
<b>F</b>	<b>8</b>	<b>1</b>	Sequential activation of temporary (plus) registers (that are not saved in the flash)

**ANALOG MENU**

KEY			DESCRIPTION
<b>F</b>	<b>8</b>	<b>0</b>	Edit the Maximum value of analog

**DOSIFI MENU**

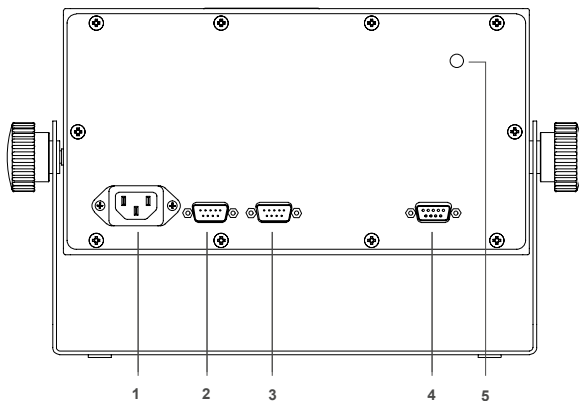
<b>F</b>	<b>8</b>	<b>2</b>	Dosage Menu Prod. Weight 1
<b>F</b>	<b>8</b>	<b>3</b>	Dosage Menu Prod. Weight 2

**USER MENU**

<b>F</b>	<b>9</b>	<b>0</b>	MenuWeight
<b>F</b>	<b>9</b>	<b>1</b>	AUW
<b>F</b>	<b>9</b>	<b>2</b>	Menu By10 (extended resolution)
<b>F</b>	<b>9</b>	<b>3</b>	AUW calculation menu
<b>F</b>	<b>9</b>	<b>5</b>	Show subtotal
<b>F</b>	<b>9</b>	<b>8</b>	Disable Simple Checkweigher
<b>F</b>	<b>9</b>	<b>9</b>	Activate the Simple Checkweigher

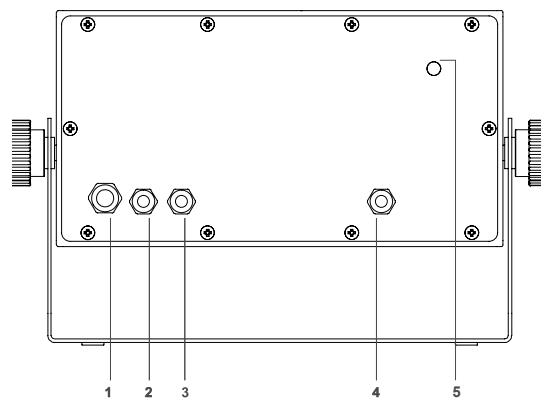
## 1.2 BACK PANEL

### INOX IP54



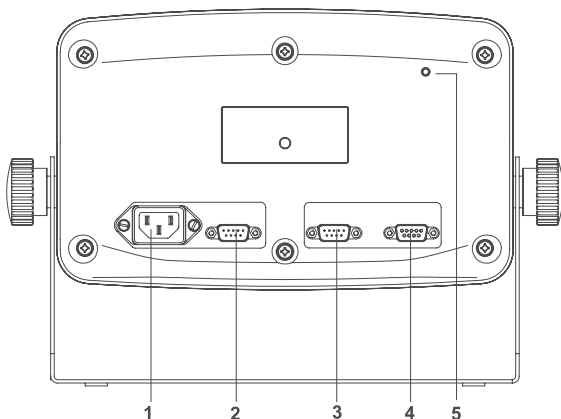
- |   |                                      |
|---|--------------------------------------|
| 1 | Power connection IEC                 |
| 2 | Connector RS 232-COM 1 (SubD 9 male) |
| 3 | Connector RS 232-COM 2 (SubD 9 male) |
| 4 | Connector Load cell (SubD 9 fem)     |
| 5 | Calibration switch    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

### INOX IP65



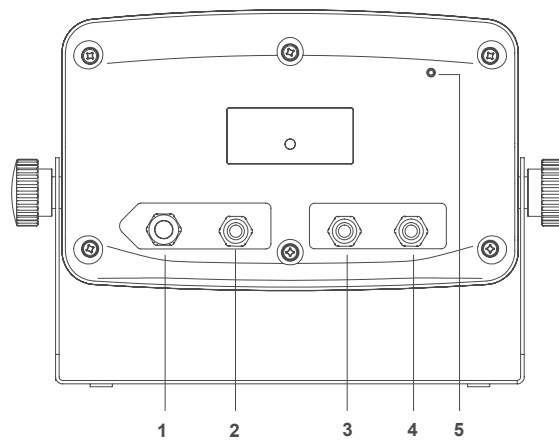
- |   |                      |
|---|----------------------|
| 1 | PG9 for Powersupply  |
| 2 | PG7 for RS 232-COM 1 |
| 3 | PG7 for RS 232-COM 2 |
| 4 | PG7 for Load cell    |
| 5 | Calibration switch   |

### ABS IP54



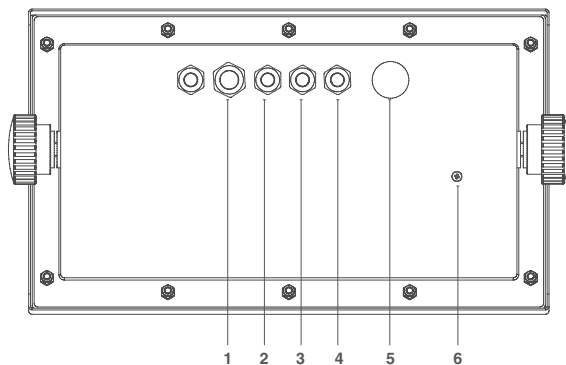
- |   |                                      |
|---|--------------------------------------|
| 1 | Power connector IEC                  |
| 2 | Connector RS 232-COM 1 (SubD 9 male) |
| 3 | Connector RS 232-COM 2 (SubD 9 male) |
| 4 | Connector Load cell (SubD 9 fem)     |
| 5 | Calibration switch    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

### ABS IP65



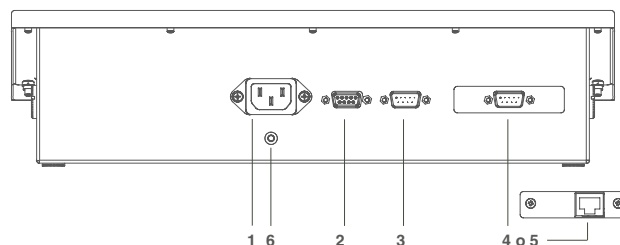
- |   |                      |
|---|----------------------|
| 1 | PG9 for Powersupply  |
| 2 | PG7 for RS 232-COM 1 |
| 3 | PG7 for RS 232-COM 2 |
| 4 | PG7 for Load cell    |
| 5 | Calibration switch   |

### 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

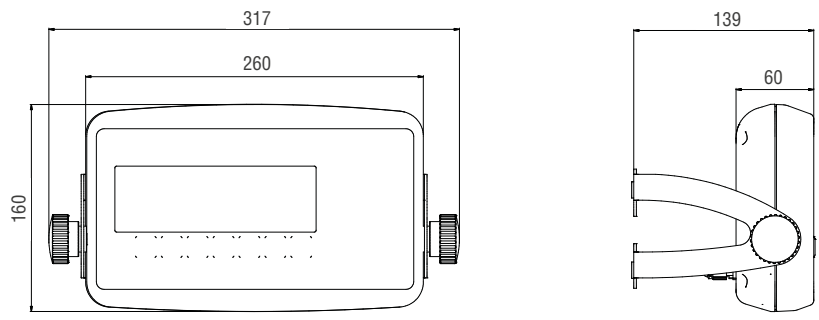


- |   |                                      |
|---|--------------------------------------|
| 1 | Power connector IEC                  |
| 2 | Connector Load cell (SubD 9 fem)     |
| 3 | Connector RS 232-COM 1 (SubD 9 male) |
| 4 | Connector RS 232-COM 2 (SubD 9 male) |
| 5 | Ethernet Connection (optional)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

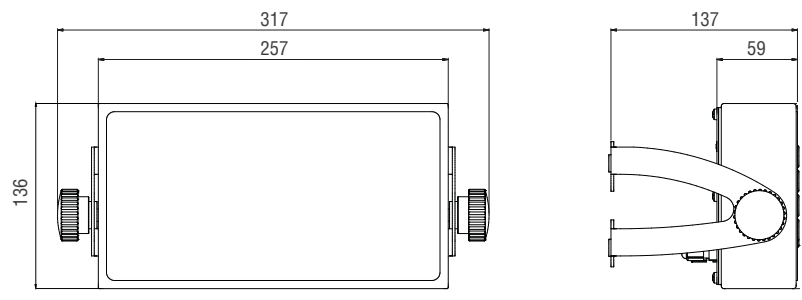


**1.3 DIMENSIONS**

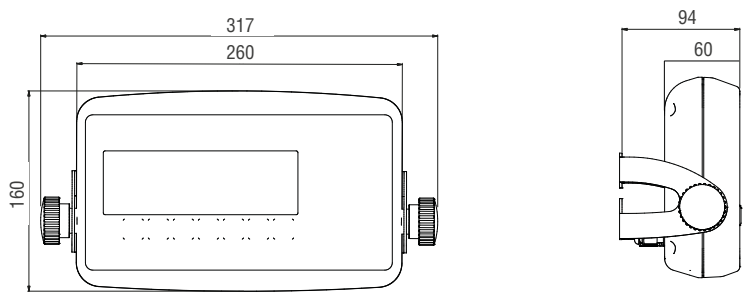
**GI4XX ABS IP 54 - 65**



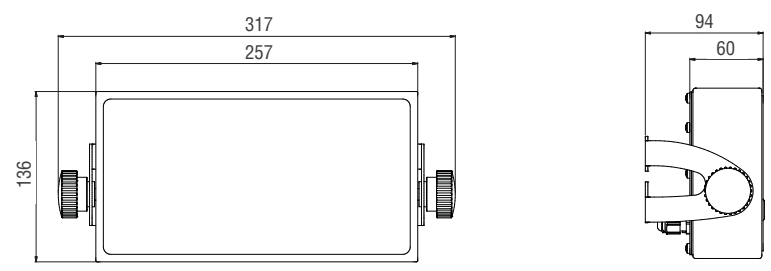
**GI4XX INOX IP 54 - 65**



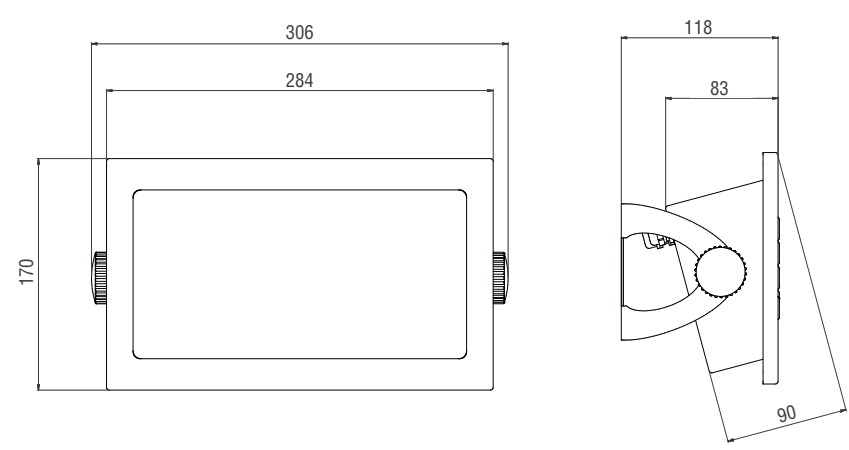
**GI400 BAT LI-ION ABS IP 65**



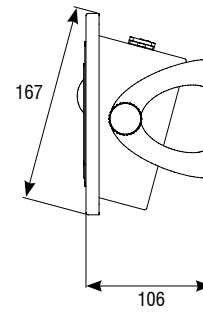
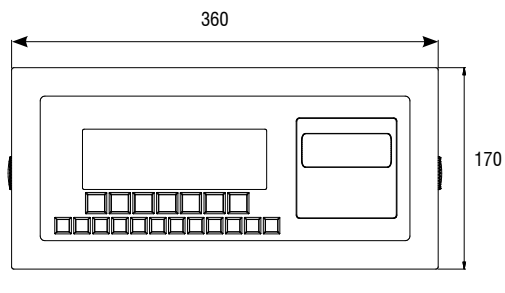
**GI400 BAT LI-ION INOX IP 65**



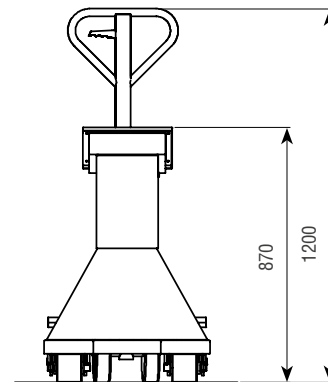
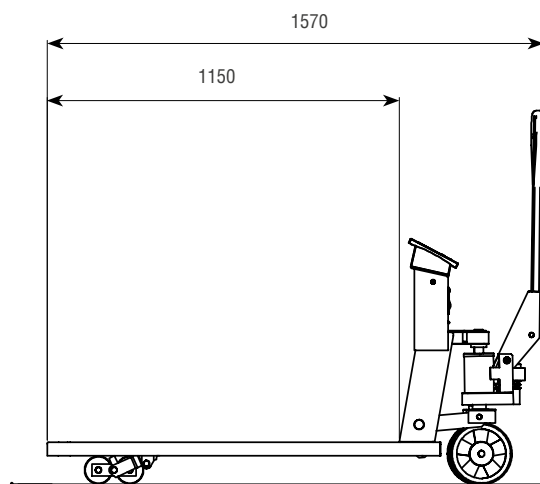
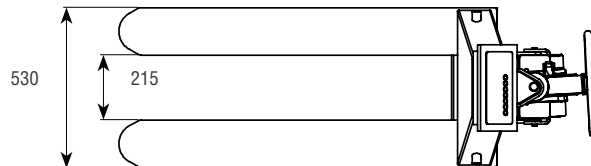
**GI4XX INOX IP 68 / GI4XX ATEX**



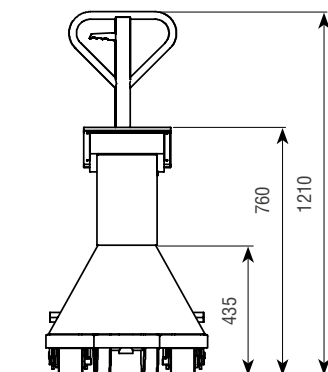
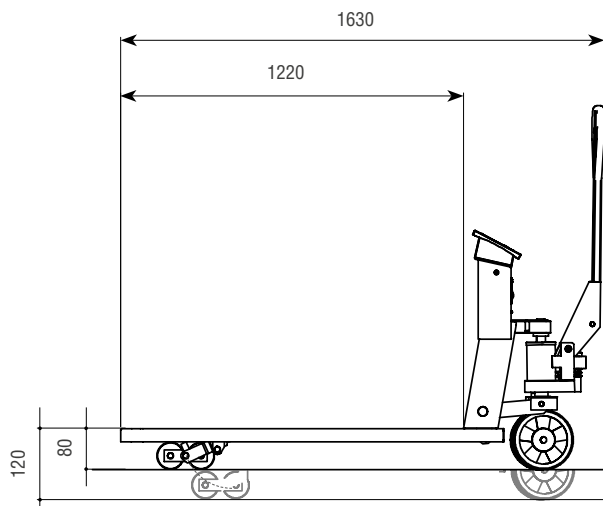
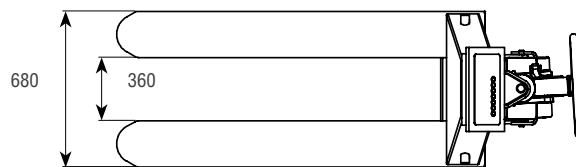
# **GI410 PRINT INOX IP 54**





## **TP410**








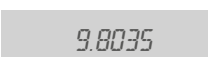

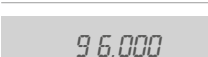
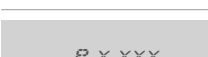

## **TP410 WIDE**



## 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>gRAv.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 Inclinator (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 **ZEro** 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  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  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 .

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


To do a tare the user must press the key . 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  again.

To know the gross weight (container plus contents) the user must press the key . 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  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 the brut weight is zero, the user must press for at least 2 seconds, the key  after perform a tare. The tare value remains blocked. The display informs the operation showing "Tar.Blo".

To unblock the tare the user must keep pressed 2s the key . The display is going to indicate this action by showing the message "Tar.UNES" on the screen.

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

### 3.5 MANUAL TARE

Its possible to input a manual tare by pressing the key  for 2 seconds.

Put the desired Value with the Arrow-Keys and confirm with .

### 3.6 MEMORIZED TARE *TLU*

The device 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 *FUnC:0* --> *TLU*

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 the print protocol first (discribed in point 7).

To activate the accumulation the user must go to the Technical-menu *CONF:6* (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  key when stable indication  turns on.

If we want to accumulate again, press the key  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 . 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 *Config-> Print-> Copy*).

## 4. OPERATION MODES (USER MENU)

KEY	EXPLANATION
	Increases the Value or selected number Goes to the previous function
	Decreases the Value or selected number Goes to the next function
	Moves the edition Digit to the left
	Moves the edition Digit to the right
	Long Press: Exit the menu without memorizing (function ESC) Short Press: In editable menu, sets the value back to 0
	Choose the function and enter the menu Inside a menu, memorizing the selected option/value

### MENU

<i>WEIGHT</i>	WEIGHT - MODE (STANDARD)
<i>CAL</i>	CALCULATION OF THE AVERAGE UNIT WEIGHT
<i>PIEC</i>	PIECE COUNTING
<i>CHECK</i>	CHECKWEIGHER
<i>CCK Si</i>	CHECKWEIGHER SIMPLE
<i>CCK d</i>	DOUBLE CHECKWEIGHER (As of firmware version 8,000, this function is merged with the normal Checkweigher and we now only have the Checkweigher and Simple Checkweigher function)
<i>CU-REL</i>	CHECKWEIGHER + RELAY FUNCTION (only with optional Relay-board)
<i>TAKEoU</i>	TAKEOUT-FUNCTION
<i>WE:ACC</i>	WEIGHT-ACCUMULATION FUNCTION
<i>ok Tare</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 (only with optional Relay-board)
<i>L.M.L</i>	LIMITS - MODE (only with optional Relay-board)
<i>2REL</i>	2REL - MODE (only with optional Relay-board)
<i>dSd</i>	FISCAL MEMORY MENU (only with optional Fiscal Memory plugged)
<i>TLU</i>	MEMORIZED TARA
<i>AnALog</i>	ANALOG OUTPUT (only with optional Analog-board)
<i>FUnC.o</i>	FUNCTION - MENU
<i>RELISA</i>	RELISA PROTOCOL MENU
<i>PT653</i>	PT653 PROTOCOL MENU

### 4.1 WEIGHT MODE *WE:947*

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

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

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 **PRINT**<sup>kg</sup>. The screen is going to show the message *SP.xxxxx*. 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 **PRINT**<sup>kg</sup>.

The indicator shows, during two seconds, the message *WE.Um* 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 *AUU*

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

The indicator asks for the *AUU* by showing the message *Px.xxxxx*.

The user must introduce the value of the unit weight using the Arrow - Keys. Press **PRINT**<sup>kg</sup> to confirm.

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

### 4.4 CHECKWEIGHER *CHECK*

(CHECKWEIGHER FUNCTION CONFIGURATION UP TO FIRMWARE VERSION 7.000. FOR LATER VERSIONS SEE THE NEXT PAGE)

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 *LArsEL*: 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 *TYPE 1* and *TYPE 2*.

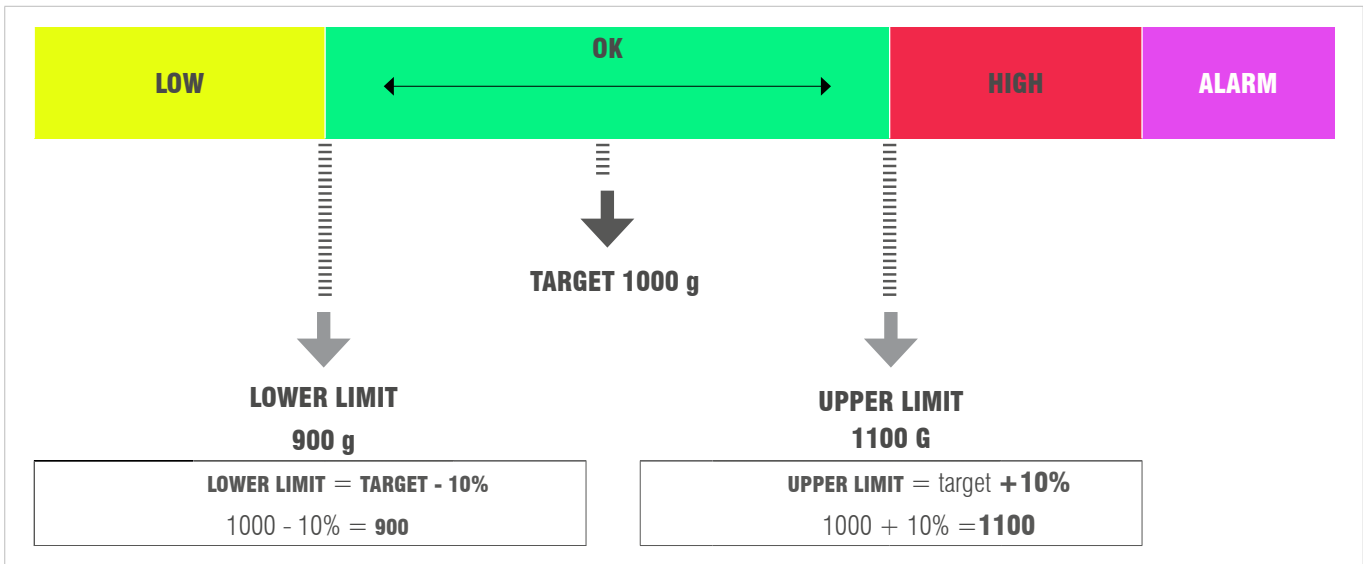
#### TARGET TYPE 1 *T.TYPE 1*

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

Example:

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

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



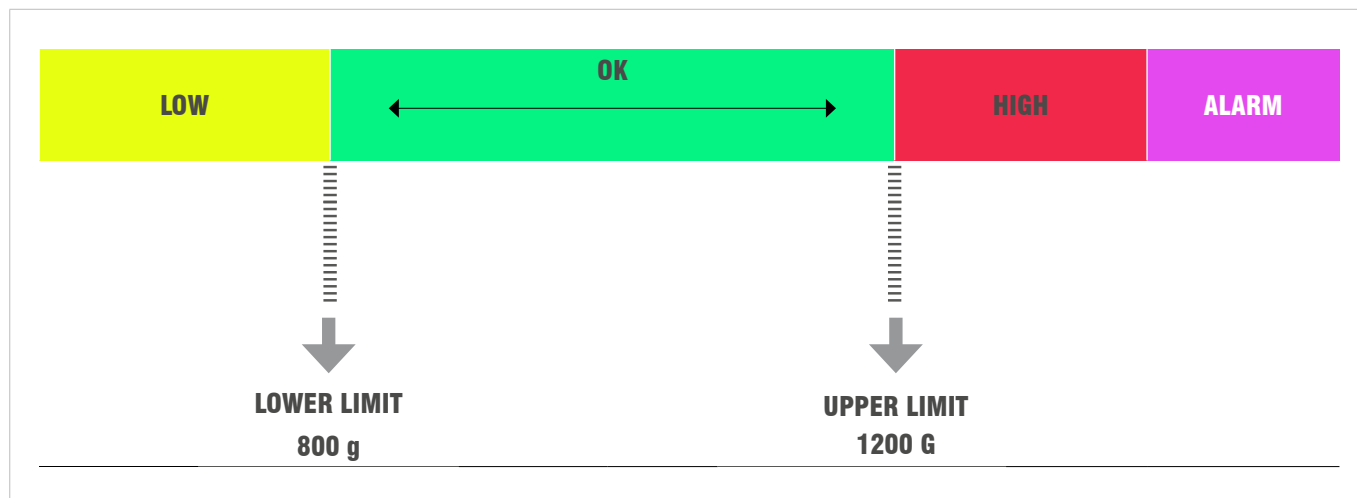
**TARGET TYPE 2 *T.TYPE 2***

Example:

If the user chooses the *T.TYPE 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 *bEEPL* or *bEEPm*.

**BEEP TYPE *bEEPL***

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.

*LoU*: **Below** the target range.

*LGtng*: When it's **in** the Target range.

*HiGH*: **Above** the target range.

**BEEP MODE *bEEPm***

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

**YES/NO ACTIVE**

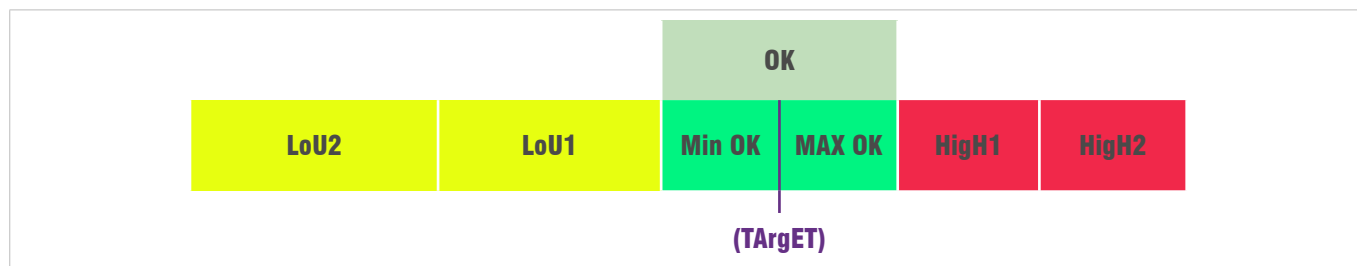
Finally the indicator asks if we want to activate the **Checkweigher**, in the case of not activating it is also memorized the configuration we have chosen previously.

**CHECKWEIGHER FUNCTION**

(FROM FIRMWARE VERSION 8.000 ONWARD)

Starting from version 8.000, the dual Checkweigher function is discontinued, and the Checkweigher function is expanded. Essentially, the operation and configuration remain the same, but with some new implementations that we will detail below:

- We now have control over six zones. In the **OK** zone, two subranges are added, the “**Min OK**” and “**Max OK**”



- We can choose in which range(s) we want the beep (acoustic signal, short or long).
- We can choose to record the weight within any range(s). To configure this function, we need to go to the Technical menu / *CONFUE* / *CU-Arns* and select “yes” or “no” for each range individually.



## OTHER CONSIDERATIONS OF THIS FUNCTION

The checkweigher function can be activated by selecting a previously created PLU associated with this working mode (see the functions menu in section 5).

We can create or configure PLUs, either from the device unit itself or from the PC program, configtools:

**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  $\leftarrow \text{PRINT}^{\text{kg}} \right|$ .

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  $\leftarrow \text{PRINT}^{\text{kg}} \right|$ . 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 DISAPPEARED STARTING WITH FIRMWARE VERSION 8.000)

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.

LOW 1	OK1	LOW 2	OK2	HIGH 2	ALARM
-------	-----	-------	-----	--------	-------

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

#### 4.7 CHECKWEIGHER + RELAY FUNCTION *CU-ELE*

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 --> TGTAL --> ACCAUT
CONFUE --> SIGNAL --> SIGNAL
CONFUE --> TARAUT --> TARAUT
  
```

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*

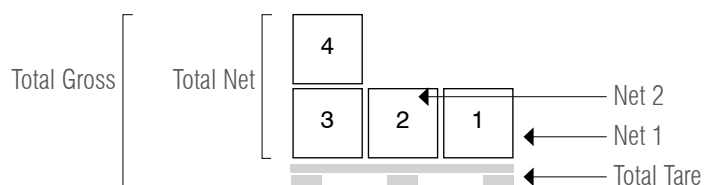
The user has the option to work with a Accumulation function, including Auto-tara each weight, for example to a Pallet with Boxes.

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

```
CONFUE --> TARAUT --> TARAUT
```

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 7.0*

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* --> *57b0da*

*CONFUE* --> *707AL* --> *707OFF*

*CONFUE* --> *TRU7.0* --> *TAr 4*

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 *84 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** <sup>ESC</sup> 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 *7Code*

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 *DOSIFI*

(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 1 W</i>	<b>WEIGHT</b>	Weight of Product 1	
<i>Prod 1 T</i>	<b>TIME</b>	If the weight doesn't change in this time, it activates the Alarm - Relay.	
<i>Prod 2 W</i>	<b>WEIGHT</b>	Weight of Product 2	
<i>Prod 2 T</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 discT</i>	<b>TIME</b>	Time of stability needed, when inside the discw - range, to finish the process.	
<i>LArEE</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)

### *Prod2*

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:**

```

CARL-PA--> ind:CA--> 0 in:7--> noCEr0
CARL-PA--> ind:CA--> 8 in:7--> in0 100
Conf:UE--> Signal--> 5:9 11

```

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* to *RL1a*.

### 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 <i>xx.xxx</i> :	It programs the <b>Start</b> value, every value <b>above</b> this one is going to activate Relay 1.
<b>LOW</b>	L <i>xx.xxx</i> :	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> L. <b>Low</b> and <b>High</b> .	
<b>HIGH</b>	H <i>xx.xxx</i> :	It programs the <b>High</b> value, every value <b>above</b> this one is going to activate Relay 3.
<b>ALARM</b>	A <i>xx.xxx</i> :	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. (**Alt.Err**)

## 4.19 MEMORIZED TARAS **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>ACTIV</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** ESC to access the menú *ACTIV*.

### 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 *AnMAX* so that in the exit we can register 20mA with a multimeter.

Next we are going to the parameter *AnZer* 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 *An Min* 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** <sub>WXYZ</sub> + **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.

## 4.24 dELER

This Menu is related to the Protocol *dELER*.

Here you can input the fixed variable of Protocol *dELER*.

# 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 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 a barcode or rfid) , 400 items of type 2 (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>Descri</i>	XXXXX	Up to 24 Characters		
<i>Tara</i>	Weight	Tara-value	<b>F</b> + <b>1</b> <sub>ABC</sub> + <b>1</b> <sub>ABC</sub>	Activate File 1
<i>Type</i>	Weight	Weight-value	<b>F</b> + <b>1</b> <sub>ABC</sub> + <b>2</b> <sub>DEF</sub>	Deactivate File 1
	Checkweigher	Checkweigh values		
	AUU	Average weight		
<i>ERnCod</i>	XXXXX	Up to 13 Numbers		
<i>rFid</i>	XXXXX	Up to 20 Characters		

<i>Pr. File 2</i> Filxxx (Select File 2)			DIRECT KEYS	FUNCTION
<i>Code</i>	XXXXX	Up to 6 Numbers	<b>F</b> + <b>2</b> <sub>DEF</sub> + <b>0</b>	Menu File 2
<i>Descri</i>	XXXXX	Up to 24 Characters		
<i>rFid</i>	XXXXX	Up to 20 Characters	<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>Pr.Tare</i>				DIRECT KEYS	FUNCTION
	<i>TareXX</i>	Weight	Tara-value	<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	<b>F</b> + <b>4</b> <sub>JKL</sub> + <b>0</b>	Displays the information of the weights
			File2 number		
			Net Weight		
			Brut Weight		
			Tare Weight	<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 <i>OverBuf</i>
			Number of Pieces		
			Date		
	<i>CONFIG</i>	BFULLX	0 No warning		
			1 Beep		
			2 Beep + Message		
<i>Total</i>				DIRECT KEYS	FUNCTION
	<i>File 1</i>	Filxxx	Net Weight	<b>F</b> + <b>5</b> <sub>MNO</sub> + <b>0</b>	It shows the total of the weighing associated to the item 1
			Brut Weight		
			Tare Weight		
			Number of Pieces		
			Total Weight	<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>File 2</i>	Filxxx	Net Weight		
			Brut Weight		
			Tare Weight		
			Number of Pieces		
			Total Weight		

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

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

Select		
Activate the stored files		
File 1	FiXXXX	
File 2	FiXXXX	
TarePP	TaraXX	

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 2, item 1 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 2.
<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 1.

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.

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

Enter the technical Menu by long-press  and access to the Menu-point *Conf:9*.  
 Select the option *CodeS* and the item-file you need. (*FILE 1* FILE 2 or *Code*)  
 Change the Name as desired.

### EXAMPLE

In *FILE 1* change to “Product” and in *FILE 2* to “Client”, press  to confirm.

## EDIT THE DATA OF THE ITEM OF TYPE 1 (FILE1)

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: 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  the item will be saved and stored.


You also can press  at any time, to leave Menu. (item will be stored in this case too).

## EDIT THE DATA OF THE ITEM OF TYPE 2 (FILE2)

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 .

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  the item will be saved and stored.

You also can press  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**<sub>kg</sub>. The screen will change to *100.000*.

Now introduce the Tare-value and confirm with **PRINT**<sub>kg</sub>. After this the Screen will show *SAVE* 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-Keybord,  
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 *FIL000*, introduce the Number of Item1 you want to activate and confirm with **PRINT**<sub>kg</sub>.

For activate Item2, press **F** + **2**<sub>DEF</sub> + **1**<sub>ABC</sub>. The screen will show *FIL000*, introduce the Number of Item2 you want to activate and confirm with **PRINT**<sub>kg</sub>.

For activate the Tare, press **F** + **3**<sub>GHI</sub> + **1**<sub>ABC</sub>. The screen will show *TARE00*, introduce the Number of stored Tare you want to activate and confirm with **PRINT**<sub>kg</sub>.

**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 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 them.

## 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**<sub>kg</sub>.

## 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**<sub>kg</sub>.

# PRINT THE TOTAL LIST

For print the Total List of weighings, press **F** + **6**<sub>PQRS</sub> + **0**. The Indicator will ask *Sinbor* (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** + **1** Introduce the Number of Item2 / Item1 and also decide if *dATEno* (not filtered by Date) or *dATES*: (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** PQRS + **2** DEF. The screen will show *F.L000*, introduce the Number of file2 and confirm with **PRINT** kg.

### 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** PQRS + **3** GHI. The screen will show *F.L000*, introduce the Number of file1 and confirm with **PRINT** kg.

### 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 *Cal0000*, introduce the Number of the Item1 you want to delete and confirm with **PRINT**<sub>kg</sub>. Now you will have decide between *ALLCal* (deletes all the information of this Item1) or *TotCal* (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 *Cal0000*, introduce the Number of the Item2 you want to delete and confirm with **PRINT**<sub>kg</sub>. Now you will have decide between *ALLCal* (deletes all the information of this Item2) or *TotCal* (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**<sub>MENU</sub> 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_PR</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>PARAM</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>DEFAULT</i>	Restore the different Default-settings



**PARAM**

**COM 1 (RS-232)**

Frame

Baud

Protoc

AddrEs

dELivE

**COM 2 (RS-232)**

Frame

Baud

Protoc

Addres

dELivE

**RS-485**

Frame

Baud

Protoc

Addres

dELivE

**COM 4 (ETHERNET)**

Protoc

Addres

dELivE

**CONFIG**

Filter

Date

Time

Mv

ICount

Lang

Chpass

Autarb

Blight

Standby

Print

Num LF

Codes

Cut

Power

Copy

Repeat

Model

Decima

Prttic

Rfid

Ean

Wifi

Boot

Pieces

Digits

P net

DefPcs

Tmin

Key Cg

**CONFUE**

Saveue

Acc

Totali

CUrang

Tautin

Signal

Taraut

CU Acc

**ABT VM**

verSio

CrC

Pr HEu

Pr HEr

Pr HUP

**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>	<table> <tr><td>Frame</td><td>7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2</td></tr> <tr><td>Baud</td><td>1200-2400-4800-9600-19200-38400-57600-115200</td></tr> <tr><td>Protoc</td><td>A list of the protocols can be found on page 35</td></tr> <tr><td>AddrEs</td><td>Device number 00 - 99</td></tr> <tr><td>dELivE</td><td>intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin</td></tr> </table>	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 35	AddrEs	Device number 00 - 99	dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
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 35										
AddrEs	Device number 00 - 99										
dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin										
<i>COM 2 (RS-232)</i>	<table> <tr><td>Frame</td><td>7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2</td></tr> <tr><td>Baud</td><td>1200-2400-4800-9600-19200-38400-57600-115200</td></tr> <tr><td>Protoc</td><td>A list of the protocols can be found on page 35</td></tr> <tr><td>AddrEs</td><td>Device number 00 - 99</td></tr> <tr><td>dELivE</td><td>intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin</td></tr> </table>	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 35	AddrEs	Device number 00 - 99	dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
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 35										
AddrEs	Device number 00 - 99										
dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin										
<i>RS-485</i>	<table> <tr><td>Frame</td><td>7e1-7o1-8n1-8n2-8e1-8o1-9n1-9n2</td></tr> <tr><td>Baud</td><td>1200-2400-4800-9600-19200-38400-57600-115200</td></tr> <tr><td>Protoc</td><td>A list of the protocols can be found on page 35</td></tr> <tr><td>AddrEs</td><td>Device number 00 - 99</td></tr> <tr><td>dELivE</td><td>intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin</td></tr> </table>	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 35	AddrEs	Device number 00 - 99	dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin
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 35										
AddrEs	Device number 00 - 99										
dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin										
<i>COM 4 (ETHERNET)</i>	<table> <tr><td>Protoc</td><td>A list of the protocols can be found on page 35</td></tr> <tr><td>Addres</td><td>Device number 00 - 99</td></tr> <tr><td>dELivE</td><td>intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin</td></tr> </table>	Protoc	A list of the protocols can be found on page 35	Addres	Device number 00 - 99	dELivE	intErv, Stb 0, rEPEAT, STb0do, STAbLE, MAnuAL, PC.req, Contin				
Protoc	A list of the protocols can be found on page 35										
Addres	Device number 00 - 99										
dELivE	intErv, Stb 0, rEPEAT, 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>bizerb</i>	Protocol Bizerba
<i>Print</i>	Printer-Protocol	<i>SPi 0</i>	Protocol Sipi (Giropes version)
<i>GIPEs</i>	Protocol Giropes	<i>APLUS</i>	Protocol A+ Slave (Precia Molen)
<i>SPi 2</i>	Protocol Sipi II	<i>CAMP</i>	Protocol Campesa
<i>tol dS</i>	Protocol Mettler - Toledo DS	<i>vermag</i>	Protocol Vermag
<i>ERIC</i>	Protocol Eric (Master K.)	<i>RELISA</i>	Protocol Relisa
<i>EPsA</i>	Protocol Epelsa (\$)	<i>HbM</i>	Protocol HBM
<i>EPEL A</i>	Protocol Epelsa A	<i>barCod</i>	Protocol for Barcode-reader
<i>EPEL 80</i>	Protocol Epelsa 80	<i>dosif-C</i>	Protocol Dosification by comands
<i>M-L</i>	Protocol Mettler - Toledo	<i>rinS7</i>	Protocol Rinstrum (modell R420)
<i>Mobba3</i>	Protocol Mobba 3	<i>rinS71</i>	Protocol Rinstrum (modell R420)
<i>F501</i>	Protocol F501 (Mobba)	<i>rhEUA</i>	Protocol Rhewa
<i>SAIE</i>	Protocol Saie	<i>rhEUA1</i>	Protocol Rhewa
<i>MULTIP</i>	Protocol Multipoint 2000	<i>SOEHNL</i>	Protocol Soehnle
<i>SEUR</i>	Protocol Seur	<i>PESADA</i>	Protocol with PC reception confirmation
<i>LISA</i>	Protocol Tisa	<i>SYSTEC</i>	Protocol Systec
<i>Ud-D</i>	Protocol VDO (Dibal)	<i>SCAIME</i>	Protocol Scaime
<i>SSCAR</i>	Protocol Sensocar	<i>NT 429</i>	Protocol Mettler - Toledo (Template 1)
<i>CSCOMP</i>	Protocol Cas Novitus	<i>dPESA</i>	Protocol Seur + 2/3 Digits
<i>SB-400</i>	Protocol SB-400 (Cardinal)	<i>EXPRES</i>	Protocol Bizerba (Correos version)
<i>SMART</i>	Protocol Smart (F1 Utilcell)	<i>TRANSC</i>	Protocol Transcell
<i>LXL</i>	Protocol Teaxul	<i>TAGS</i>	Protocol personalizable by User
<i>bilANC</i>	Protocol Bilancai	<i>PT6S3</i>	Protocol Trayvou PT6S3
<i>br80</i>	Protocol BR80 - Baxtran	<i>v7300</i>	Protocol Vishay VT 300
<i>br801</i>	Protocol BR80 - Baxtran (invertida)	<i>dELAEr</i>	Protocol dELAEr
<i>GrAvi 7</i>	Protocol Gravitation	<i>PT6S2</i>	Protocol PT6S2
<i>ALibi</i>	Protocol Alibi Memory (Fiscal)	<i>bAYCon</i>	Protocol bAYCon
<i>GiConF</i>	Protocol Giscale-Communication	<i>LA7IS</i>	Protocol LA7IS
<i>rAFEL</i>	Protocol Rafel	<i>M7SiCS</i>	Protocol M7SiCS

**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 configured by the user)

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

**rEPeti:** 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.LARL*)

**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**, **Stb0do** 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

Versión: v3013 ENG

**GIROPES**  
WEIGHING SOLUTIONS

**GI ETHERNET**

Estado actual

**Configuración IP**

Modo TCP/UDP

Password

Reiniciar

**Configuración IP**

Tipo IP: IP estática

IP estática: 192 . 168 . 0 . 130

Máscara de subred: 255 . 255 . 255 . 0

Puerta de enlace: 192 . 168 . 0 . 1

Servidor DNS: 192 . 168 . 0 . 1

Guardar Cancelar

**Ayuda**

- Tipo IP:**  
IP estática o DHCP
- IP estática:**  
IP estática del módulo
- Máscara de subred:**  
Normalmente (255.255.255.0)
- Puerta de enlace:**  
Normalmente es la dirección IP del router

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

Versión: v3013 ENG

**GIROPES**  
WEIGHING SOLUTIONS

**GI ETHERNET**

Estado actual

Configuración IP

**Modo TCP/UDP**

Password

Reiniciar

**Base A Parámetros**

Modo trabajo: Servidor TCP Ninguna

Número puerto Local/Remoto: 3000 23 (0~65535)

PRINT: ☐

Modbus TCP Poll: ☐ Poll Timeout: 200 (200~9999) ms

Activar red paquete Heartbeat: ☐

Tipo registro: ninguno Ubicación: Conecta con

Guardar Cancelar

**Ayuda**

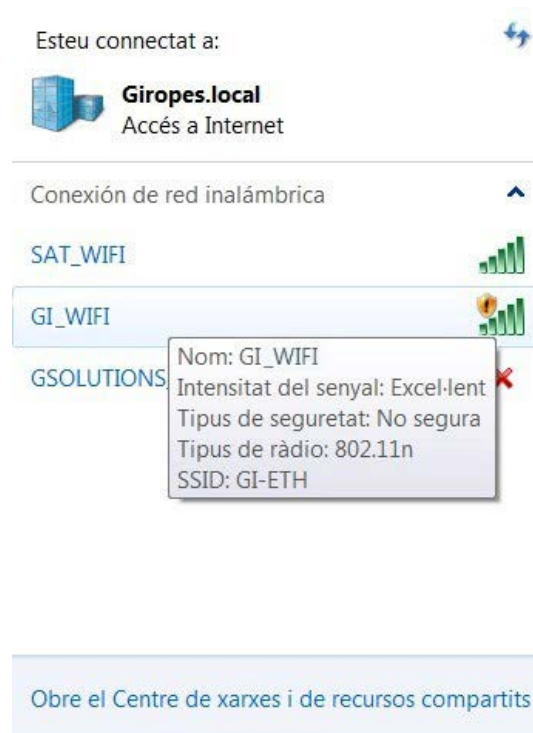
- Puerto local**  
1~65535. Cuando en modo cliente TCP se selecciona el puerto local a 0, significa que usa un puerto local aleatorio
- Puerto remoto**  
1~65535
- Paquete tiempo/longitud**  
El valor por defecto es 0/0, significa mecanismo de paquete automático; se puede modificar por valores distintos de cero

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

## 6.1.2 OPTIONAL WIFI FOR GI4XX CONFIGURATION.

### 6.1.2.0 Access to webserver

Search in "Wifi Network Connection" the network of GI-Wifi or USR...



Connect to the network and give it privileges of "Network work".



In the internet explorer enter the IP of the “gateway” (Wifi Gateway of the indicator).

**By default 10.10.100.254 o 192.168.0.130**

To access: Username “admin” and password “admin” or 1234



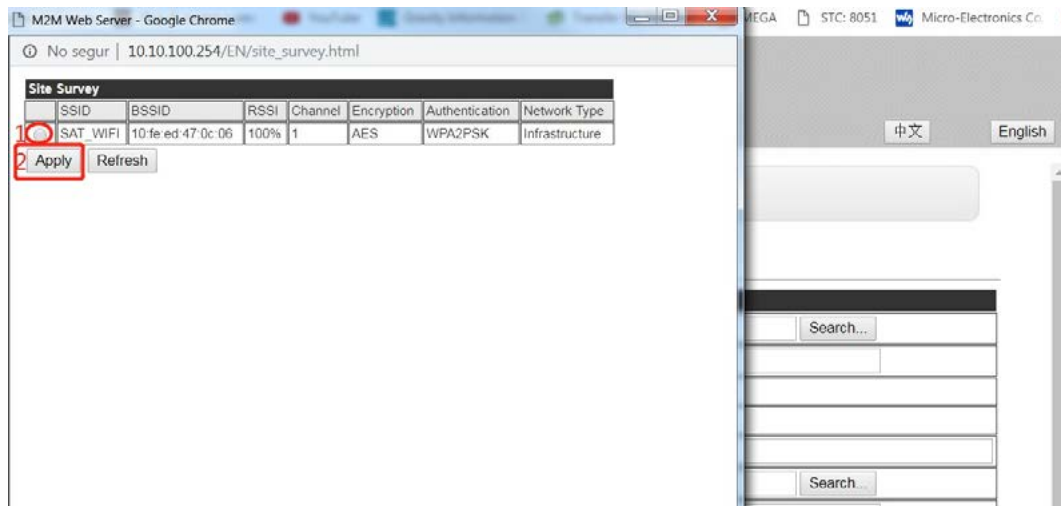
#### 6.1.2.1 Work directly with the indicator network

#### 6.1.2.2 Set the indicator inside the network, STA mode, (station)

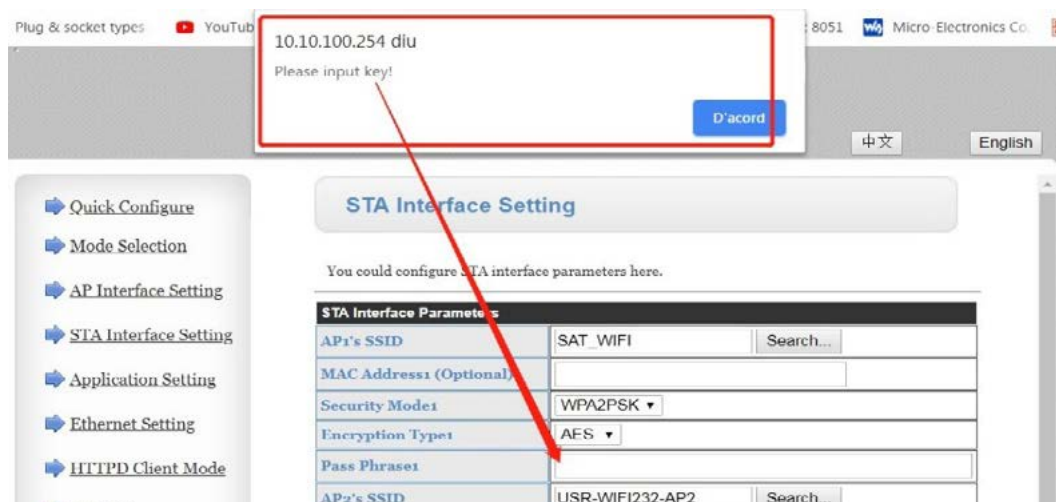
**Note:** Select STA Interface Setting. There you set AP + STA to OFF for **hide** the indicator network, when you place it inside company network. Click on APPLY for to validate.

Select STA Interface Setting. There you select the security mode of your network and the type of encryption.

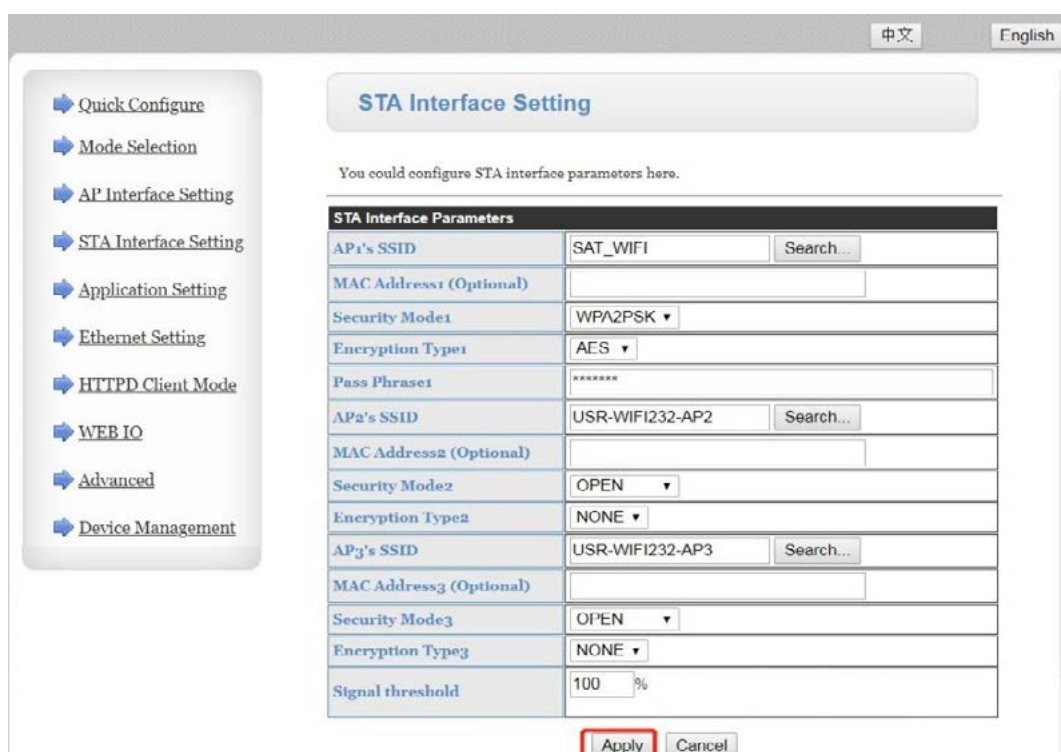
After on “search”, click on your wifi network.



Confirm with “Apply”.

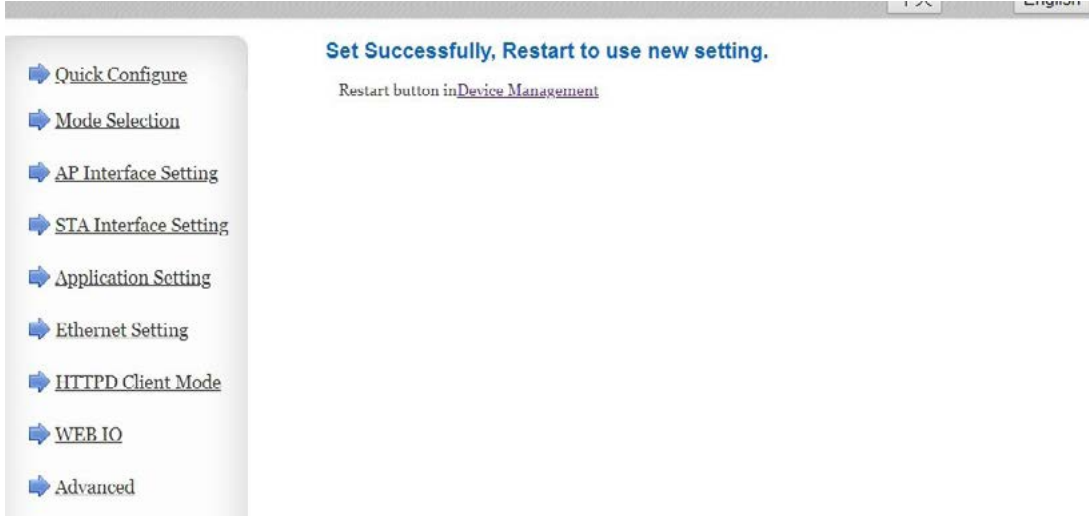


The device will ask you for the network password.

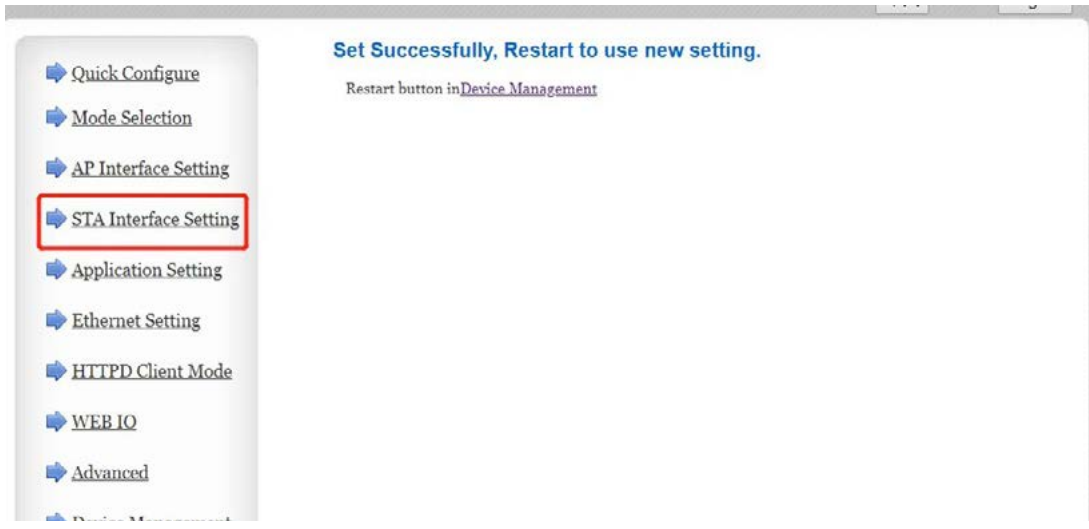


Enter it and confirm with Apply.

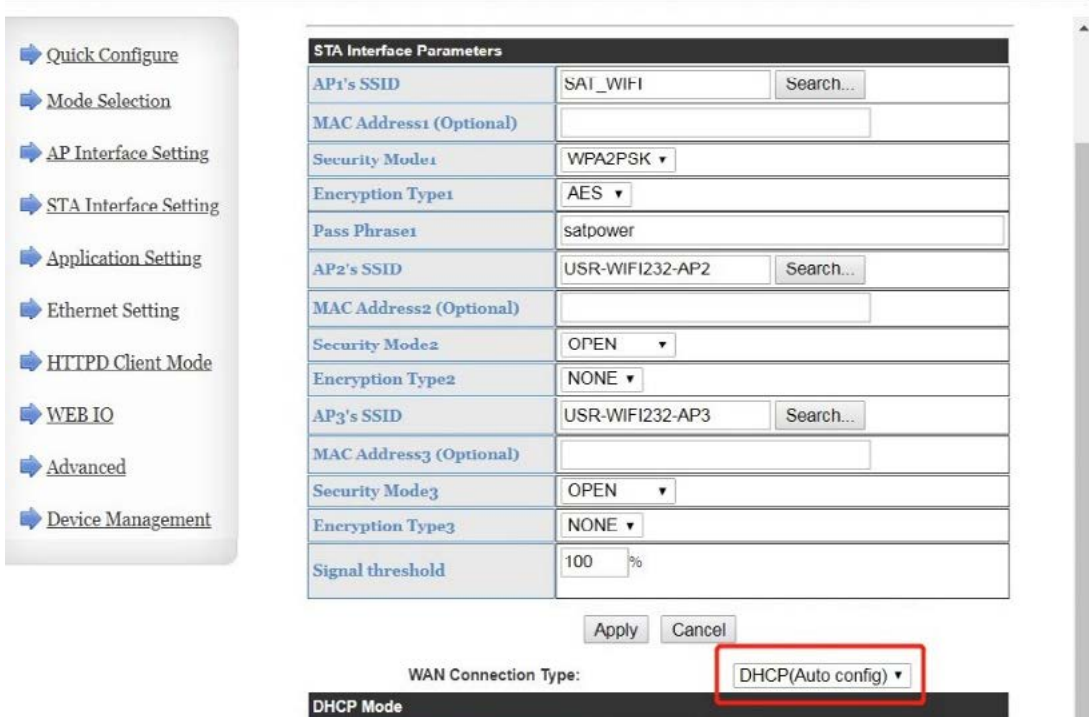




Select STA Interface Setting again.



On "WAN Connection Type" choose STATIC (fixed IP).



The screenshot shows the configuration interface with a sidebar on the left containing menu items: Quick Configure, Mode Selection, AP Interface Setting, STA Interface Setting, Application Setting, Ethernet Setting, HTTPD Client Mode, WEB IO, Advanced, and Device Management. The main area displays settings for three interfaces (1, 2, and 3). For each interface, there are fields for Security Mode, Encryption Type, Pass Phrase, SSID, and MAC Address (Optional). A 'Signal threshold' field is at the bottom. Below these settings, the 'WAN Connection Type' dropdown is highlighted with a red box and set to 'STATIC(fixed IP)'. Below this, the 'Static Mode' section is visible with fields for IP Address, Subnet Mask, and Default Gateway, all currently set to 0.0.0.0.

Security Mode1	WPA2PSK
Encryption Type1	AES
Pass Phrase1	satpower
AP2's SSID	USR-WIFI232-AP2
MAC Address2 (Optional)	
Security Mode2	OPEN
Encryption Type2	NONE
AP3's SSID	USR-WIFI232-AP3
MAC Address3 (Optional)	
Security Mode3	OPEN
Encryption Type3	NONE
Signal threshold	100 %

Apply Cancel

WAN Connection Type: **STATIC(fixed IP)**

Static Mode	
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0

Enter the desired IP for your device, for example 192.168.0.130, and also enter the one for the network mask, the gateway and the DNS server of your network. **The IP of STA mode must be set on a different range than the IP of AP mode (point 2)**

This screenshot shows the same configuration interface as the previous one, but with specific values entered in the 'Static Mode' section. The 'IP Address' field is 192.168.0.130, 'Subnet Mask' is 255.255.255.0, and 'Default Gateway' is 192.168.0.1. A red box labeled '1' highlights these three fields. Another red box labeled '2' highlights the 'Apply' button at the bottom of the Static Mode section. The 'WAN Connection Type' dropdown remains set to 'STATIC(fixed IP)'.

Security Mode1	WPA2PSK
Encryption Type1	AES
Pass Phrase1	satpower
AP2's SSID	USR-WIFI232-AP2
MAC Address2 (Optional)	
Security Mode2	OPEN
Encryption Type2	NONE
AP3's SSID	USR-WIFI232-AP3
MAC Address3 (Optional)	
Security Mode3	OPEN
Encryption Type3	NONE
Signal threshold	100 %

Apply Cancel

WAN Connection Type: **STATIC(fixed IP)**

Static Mode	
IP Address	192.168.0.130
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.1
DNS	

Apply Cancel

Confirm with Apply.

Access to Application Setting menu, and change the baudrate for 38400.

**Wifi-Uart Setting**

You could configure the Uart parameters and network parameters of the wifi-uart application.

Uart Setting	
Baudrate	38400
Data Bits	8
Parity	None
Stop	1
Flow control	Disable
485 mode	Disable
Baudrate adaptive (RFC2117)	Enable

Apply Cancel

**UART AutoFrame Setting**

UART AutoFrame	Disable
----------------	---------

Apply Cancel

**Registered Package Setting**

Registered Package Type	off
-------------------------	-----

Note: With "Device ID" opened, the module send ID to the server, this function is used to identify the equipment.

Upload Manner: first : Module send registration packet when connection established ; every : Send registration packet every time when module send data

Confirm with Apply.

Access to Application Setting menu, and change the port for the desired one.

**Application Setting**

You could configure the application parameters of the module.

**Custom Heartbeat**

Custom Heartbeat	off
------------------	-----

Apply Cancel

**Socket Distribution settings**

Socket Distribution	off
---------------------	-----

Apply Cancel

**Network A Setting**

Mode	Server
Protocol	TCP
Port	8899
Server Address	10.10.100.100
MAX TCP Num. (1~32)	32
TCP Time out (MAX 600 s)	0
TCP connection password authentication	Disable

**Socket B Setting**

Open the SocketB function	on
Port	18099
Server Address	10.10.100.100
TCPB Time out (MAX 600 s)	0

Apply Cancel

Confirm with Apply.

Finally select Mode Selection

**Quick Configure**

- Quick Configure
- Mode Selection**
- AP Interface Setting
- STA Interface Setting
- Application Setting
- Ethernet Setting
- HTTPD Client Mode
- WEB IO
- Advanced
- Device Management

**1F** Wi-Fi Setting [\[Modify\]](#)

Wifi Mode	
Mode	AP Mode

Wireless configuration	
Network Name(SSID)	GI-ETH <input type="checkbox"/> Hidden
BSSID	D8.B0.4C.C1.42.F4
Security Mode	Disable

Apply Cancel

**2F** Ethernet Ports Setting [\[Modify\]](#)

**3F** Uart Setting [\[Modify\]](#)

**4F** Network Setting [\[Modify\]](#)

**5F** Device Management

Restart Module	
Restart Module	Restart

And STA Mode with Transparent Mode option.

**Working Mode Configuration**

You may configure the Uart-WIFI module wifi mode and data transfer mode.

☐ AP Mode:  
Access Point

**1** ☒ **STA Mode:**  
Station Mode

Data Transfer Mode **2** Transparent Mode

**3** Apply Cancel

Confirm with Apply.

Select Device Management.

**Set Successfully, Restart to use new setting.**

Restart button in [Device Management](#)

And on “restart module” click on “RESTART”.

**Device Management**

6.01T.25

You may configure administrator account and password, load default setting or update firmware.

Administrator Settings	
Account	admin
Password	admin

Apply Cancel

Restart Module	
Restart Module	Restart

Load Factory Defaults	
Load Default Button	Load Default

Timeout Reboot Setting	
Timeout Function	off ▼

Apply Cancel

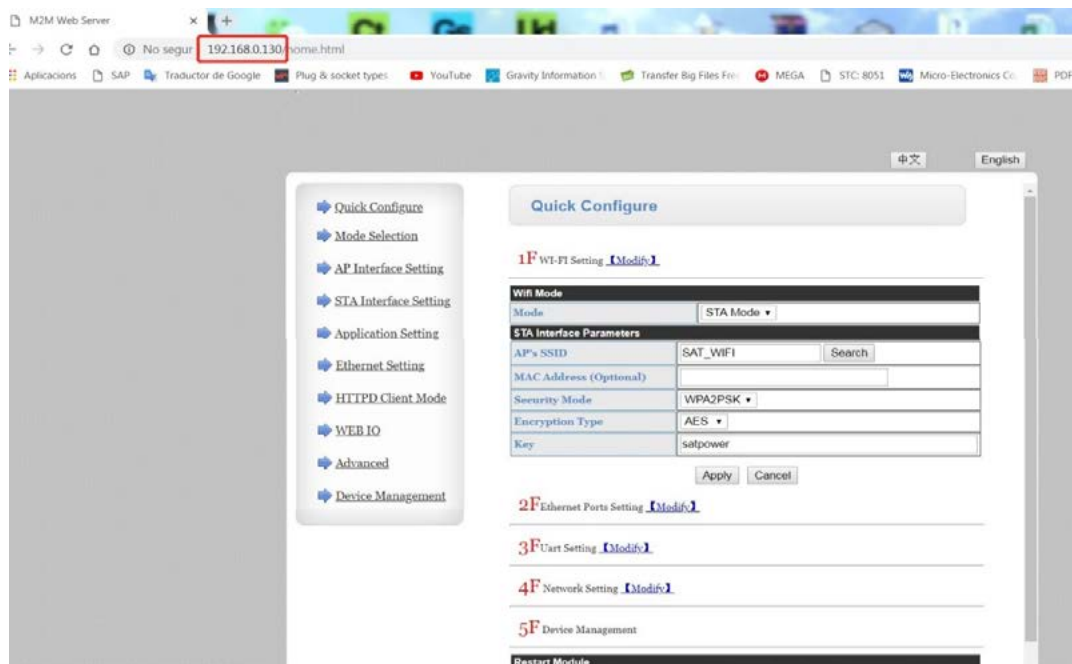
Reboot time Setting	
Reboot Function	off ▼

Apply Cancel

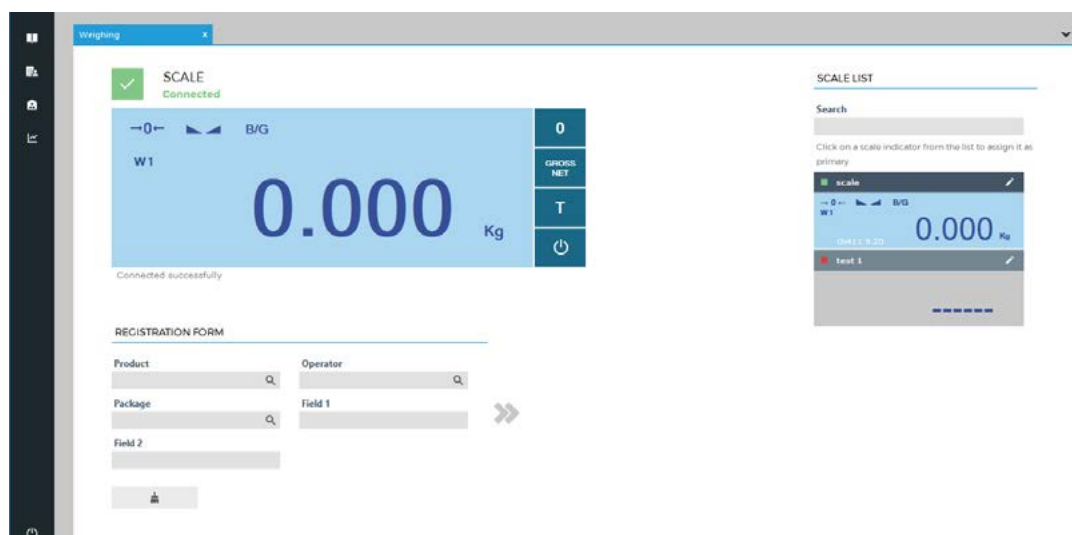
From now on the indicator will retransmit into your network with the IP and the chosen port.



If you want to access the device configuration again, you must write the IP that you gave to the device



Now on the GISCALE, you can configure the scale. Check with your dealer for Gyscale pricing.





## 6.1.2.2 Work directly with indicator network, AP (access point)

Select AP Interface Setting. There you input the name of the network generated(1) on mode AP, and click sur APPLY(2) to validate.

**AP Interface Setting**

AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	GiWifi <input type="checkbox"/> Hidden
BSSID	9C:A5:25:F9:FE:64
Frequency (Channel)	AutoSelect ▾
<div>2 Apply Cancel</div>	

GiWifi	
Security Mode	Disable ▾
<div>Apply Cancel</div>	

LAN Setup	
IP Address(Default DHCP Gateway)	10.10.100.254 4
Subnet Mask	255 255 255 0
DHCP Type	Server ▾
<div>5 Apply Cancel</div>	

Select AP Interface Setting(3) again, and input the IP (4) of device on AP mode. Click on APPLY(5) to validate.  
Select Device Management.

**Set Successfully, Restart to use new setting.**

Restart button in **Device Management**

And on “restart module” click on “RESTART”.

## GiAPP

1- On **ANDROID** tablet or mobile, download GiAPP

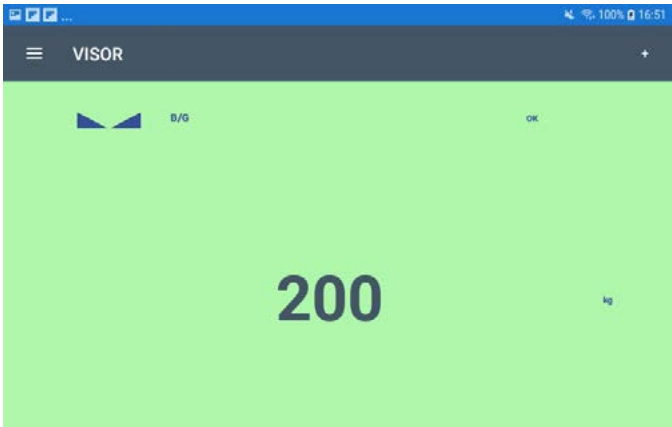
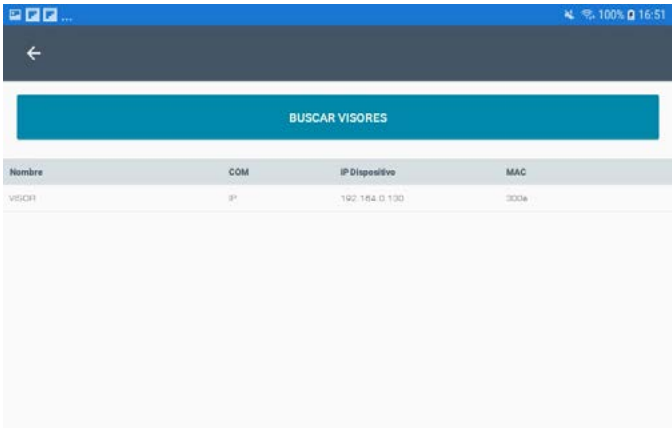
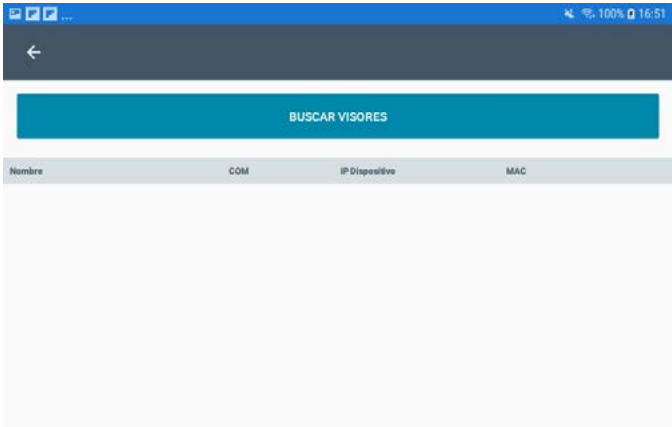


2- Connect to the viewer's Wi-Fi network (giWifi-...)





3. Open the GiAPP application.



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

<b>FILTER</b>	To select the average weighing filter (from <b>1</b> to <b>6</b> ).
<b>DATE</b>	To set the current date.
<b>TIME</b>	To set the current time.
<b>mV</b>	Displays the millivolts of the load cell.
<b>ADCount</b>	Displays the internal AD counts.
<b>LANG</b>	To select the indicator language ( <b>English, Spanish, French, Italian, Portuguese, or German</b> ).
<b>CHPASS</b>	To change the technical menu password if desired, default is " <b>0000</b> ".
<b>AUTARb</b>	For automatic tare lock every time the  tare key is pressed.
<b>backL</b>	Backlight of the screen (only with LCD indicator).
<b>on off</b>	Backlight configuration ( <b>on</b> : always on, <b>off</b> : off, <b>auto</b> : automatic, <b>Stb 3s</b> : turns off when stability is reached for three seconds).
<b>def Co</b>	To define the default backlight color.
<b>CU CoL</b>	To define the colors for different ranges in the checkweigher
<b>CUSTOM</b>	Custom color configuration for ranges.
<b>FRbrC</b>	Reset colors to factory default.
<b>STANDBY</b>	Automatic standby adjustment (only with LED indicator).
<b>Print</b>	Printer settings.
<b>num LF</b>	Lines to advance on the ticket.
<b>CUT</b>	Enable or disable ticket cutting if the printer supports this function.
<b>Copy</b>	Set the number of copies for a ticket. If set to "0," it only prints one copy of the ticket.
<b>modEL</b>	Set the printer driver compatible with your printer model. Options: <b>ESC/POS, PLUS2, LX350, bTP-99, LABEL</b> or <b>MP05</b> .
<b>PrTT: C</b>	Activate or deactivate the ticket printing function.
<b>rePrin</b>	Activate or deactivate the reprinting of the last printed ticket (long press of the  key).
<b>Codes</b>	Allows you to rename the " <b>File1</b> " and " <b>File2</b> " files, as well as the " <b>TCode</b> " file (only on indicators with a numeric keypad).
<b>inCLin</b>	To configure the inclinometer (only on TP and HPP models) (accessible only in open calibration).
<b>Zero</b>	Set the zero inclination point.
<b>Enable</b>	Activate the inclinometer.
<b>AngH</b>	Display the inclination angle of axis H. (In degrees)
<b>AngY</b>	Display the inclination angle of axis Y. (In degrees)
<b>H 100</b>	Set the maximum inclination angle for weighing: <b>2</b> or <b>5%</b> . (In percentage)

<b>POWER</b>	To configure the battery type, if available.	
	<b>no bat</b>	Default for indicators without optional battery.
	<b>6 V</b>	Internal battery with external charger.
	<b>12 V</b>	External battery with external charger.
	<b>3,7 V</b>	Internal battery without external charger.
	<b>7,4 V</b> (240v o 12v)	Internal battery with external charger ( <b>240v</b> option) and internal battery with optional 12V power supply( <b>12v</b> option).
<b>REPEAT</b>	Menu to choose whether to duplicate (send) what is received through the repeater channel: <b>TH REP</b> or <b>no TH</b> (only between COM1 and COM2 ports).	
<b>DEC.MA</b>	Set the decimal point type for printing: <b>period</b> or <b>comma</b> (only in open calibration).	
<b>RFID</b>	Configure the RFID card reading function (optional).	
	<b>rFdoFF</b>	Deactivate the RFID function.
	<b>ACPLU 1</b>	Read/activate the PLU corresponding to "File1."
	<b>ACPLU2</b>	Read/activate the PLU corresponding to "File2."
	<b>AdddAT</b>	Send the data read by RFID.
<b>BAR</b>	Configure the barcode reader function (optional).	
	<b>ACPLU 1</b>	Read/activate the PLU corresponding to "File1."
	<b>AdddAT</b>	Send the data read by the barcode reader.
<b>Wi-Fi</b>	Reset the Wi-Fi board to factory settings: <b>res N</b> or <b>res S</b> .	
<b>boot</b>	Manually enter the indicator update mode.	
<b>PIECES</b>	Enter the quantity of items associated with a weighing using the numeric keypad (for use with the Gyscale PC program).	
	<b>digs TS</b>	Number of digits to enter when different from the default number of items: no (disables the function), <b>1digs</b> , <b>2digs</b> , or <b>3digs</b> .
	<b>defPCS</b>	Default number of pieces to send with the weighing.
<b>PnET</b>	Set the minimum weight in steps to accumulate/register. Default is <b>20</b> .	
<b>TMin</b>	Set the minimum weight to perform the initial auto tare function and not tare small zero deviations before placing the weight to auto-tare.	
<b>KEYCS</b>	Deactivate the functionality of the indicator keys: choose to leave each one active or deactivate it one by one.	

**6.3 CONFUE MENU**

<b>CONFUE</b>	
<b>SAVEUE</b>	Configure whether to save the weighings performed in the indicator memory: <b>YES</b> or <b>NO</b> .
<b>ACC</b>	Configure the accumulation/registration mode for weighings. (To enable accumulation, select the <b>IMP</b> protocol on a port and enable Totalization)
<b>MANUAL</b>	Accumulation when pressing the <b>PRINT</b> <sup>kg</sup> key.
<b>PCrEs</b>	Accumulation upon external request to the indicator.
<b>STb 0</b>	Accumulation by load stability, passing through zero before each weighing.
<b>STb0do</b>	Accumulation by discharge stability, passing through zero before each weighing.
<b>STABLE</b>	Accumulation by stability
<b>TOTAL</b>	Configure the totalization mode for weighings.
<b>ToToFF</b>	Totalization and accumulation deactivated.
<b>ToTMAn</b>	Totalization when pressing the <b>MR</b> <sub>ESC</sub> key.
<b>ToTAUT</b>	Automatic totalization, with the option to select the number of accumulations for automatic totalization.
<b>CURAn9</b>	Configure the ranges in which you want to allow accumulation of weighings in the checkweigher function.
<b>TAUTin</b>	Activate or deactivate automatic initial tare. (Not compatible with accumulation modes <b>STb 0</b> and <b>ESTABL</b> )
<b>SIGNAL</b>	Decide whether to consider the sign of the weight value or not. For example, when working with the TAKEOUT mode (negative checkweigher), this option configures among other things <b>SIGNAL</b> . (Only accessible in open calibration)
<b>TARAUT</b>	Activate or deactivate the function of successive automatic tares when the weight is correct and stable. When the <b>PRINT</b> <sup>kg</sup> key is pressed, the weighing is recorded, and the weight on the platform is automatically tared. This function is activated automatically when entering the "Takeout" or <b>Pesacc</b> . (Only in open calibration)
<b>CURACC</b>	Configure accumulation in checkweigher mode. (Only in open calibration)
<b>CnET</b>	Normal checkweigher.
<b>CnETA</b>	Checkweigher based on accumulated value.

## 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.g</i>	Choose the menu <i>CONF.g</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</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>VERSI0</i>	Shows the version of the weight-modul
<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 DEFAULT

<i>Default</i>	
<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 to the factory settings <b>Only in CAL_open available</b>
<i>Print</i>	Sets back the printer settings to factory

## 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 **MODE** <sup>MENU</sup> for about 2 seconds and choose the menu

point *PRAME*. 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** <sup>kg</sup> and choose the point *Pro70L*. Now choose the Protocol *Prn7* and confirm with **PRINT** <sup>kg</sup>

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** <sup>kg</sup>.

### 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: Tank	_____	→ 5
6 ←	Grain: Corn	_____	→ 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:	20000001953 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: Dump	_____	→ 5
6 ←	Grain: Stones	_____	→ 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	→ 1
Date: 11/06/2020	Time: 11:38:31	
Tcode: 123		→ 2
Truck: Trailer		→ 5
Grain: Barley		→ 7
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 → 1
=====	
Tot Gross:	654 kg
-----	
Tot Tare:	10 kg
-----	
Tot Net:	644 kg
=====	

**FORMAT FOR ACCUMULATION WITH TOTALIZATION PRINTFORMAT:****PrnF. 4** (Line by Line)

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

Diagram illustrating the layout of the **PrnF. 4** print format. The layout is enclosed in a box with three header lines at the top. Below the header, the following information is displayed:

- Date: 11/06/2020 Time: 11:38:31 Nr. Ticket 000013
- T code: 1234
- N. Weight Tara Net
- Truck: Tank
- Grain: Corn
- 1 000011 10kg 74kg
- Truck: Tank
- Grain: Corn
- 2 000011 10kg 136kg
- Truck: Tank
- Grain: Corn
- 3 000011 10kg 236kg
- Tot.Weights Tot.Net kg Tot.Gross kg
- 00003 446kg 476kg

Numbered callouts indicate the following elements:

- 9: Header lines
- 1: Date, Time, Nr. Ticket
- 2: T code
- 3: Left margin
- 4: Truck
- 5: Grain
- 6: Left margin
- 7: Right margin
- 8: Ticket number
- 10: Tot.Net kg

**Printformat: PrnF. 5**

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

Diagram illustrating the layout of the **Printformat: PrnF. 5** print format. The layout is enclosed in a box with three header lines at the top. Below the header, the following information is displayed:

- Date: 11/06/2020 Time: 11:37:00 Prg:001
- Nr. Ticket: 000001 Code: 000011
- G 6523 kg
- T 0 kg
- N 652 kg

Numbered callouts indicate the following elements:

- 9: Header lines
- 10: Code

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

Diagram illustrating the layout of the **Printformat: PrnF. 6** print format. The layout is enclosed in a box with three header lines at the top. Below the header, the following information is displayed:

- Time: 11/06/2020 Date: 11:37:00
- T code: 1234
- Grain: Corn
- N.Weight Truck N.Art. Net kg
- 1 Tank 00011 74 kg
- 2 Tank 00011 136 kg
- 3 Tank 00011 236 kg
- TOTAL NET: 446 Kg

Numbered callouts indicate the following elements:

- 9: Header lines
- 2: T code
- 6: Grain
- 7: N.Art.
- 4: Net kg
- 5: Truck
- 8: Ticket number
- 10: TOTAL NET

**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 (the name of the T-Code can be changed as desired in Menu Config)
4. Name Item 1 (only with item 1 activated)
5. Name of the activated item 1 (only with item 1 activated)
6. Name Item 2 (only with item 2 activated).
7. Name of the activated 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
<div>H:9FEr</div> <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>
<div>LowFEr</div> <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>
<div>Over L</div> <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>
<div>UnderL</div> <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>
<div>-0-Err</div> <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>

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

## 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

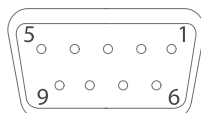
## 9. CONNECTIONS

### 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.



FUNCTION OF PINS IN G4XX			FUNCTION OF PINS IN HPP		
n.º pin	Description	Function	n.º pin	Description	Function
<b>1</b>	-EXC	- Excitation	<b>1</b>	-EXC	- Excitation
<b>2</b>	-SENSE	- Sign SENSE	<b>2</b>	INT	Interruption inclinometer
<b>3</b>	GND_A	analog mass	<b>3</b>	GND_A	analog mass
<b>4</b>	+SENSE	+ Sign SENSE	<b>4</b>	SDA	Data signal I2C
<b>5</b>	+EXC	+ Excitation	<b>5</b>	+EXC	+ Excitation
<b>7</b>	- OUT	- Sign Load cell	<b>6</b>		Not connected
<b>8</b>	+ OUT	+ Sign Load cell	<b>7</b>	- OUT	- Sign Load cell
			<b>8</b>	+ OUT	+ Sign Load cell
			<b>9</b>	SCK	Clock signal I2C

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.

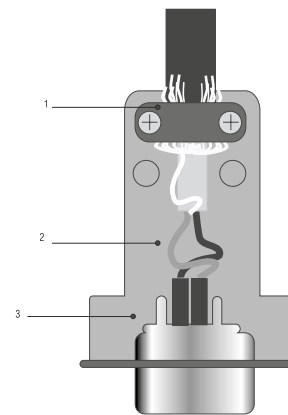
Minimum impedance 25  $\Omega$

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 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)

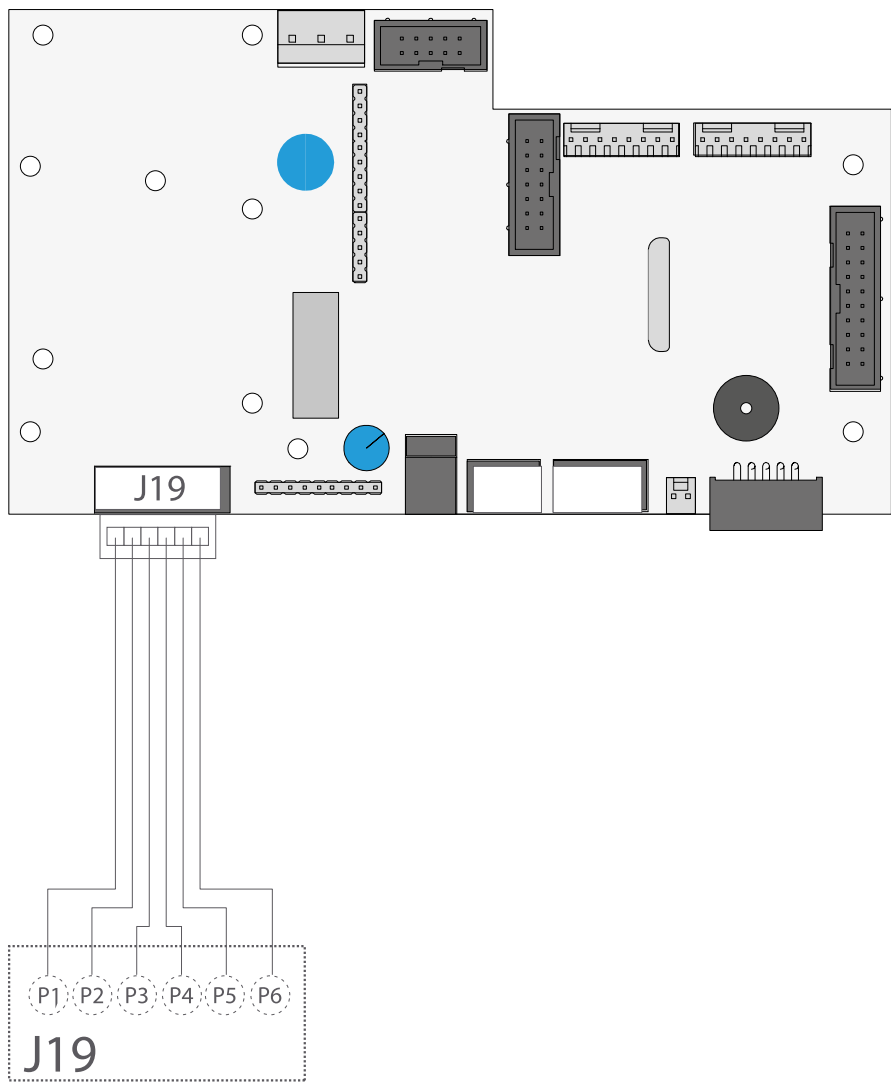
n° pin	Description
<b>6</b>	GND
<b>7</b>	$V_{OUT}$
<b>8</b>	$I_{OUT} -$
<b>9</b>	$I_{OUT} +$

## 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

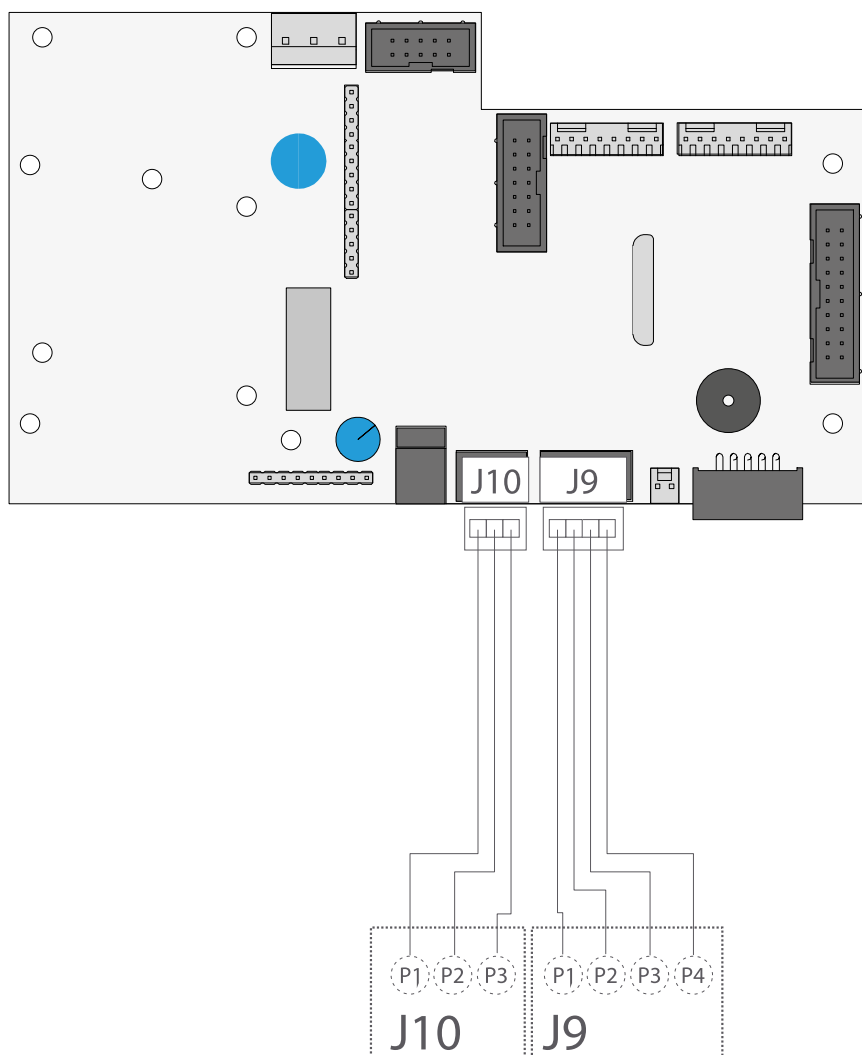


## LOAD CELL CABLE

### 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



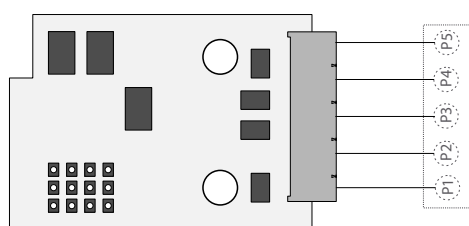
### COM 1 RS232 CONNECTOR J9

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

### COM 2 RS232 CONNECTOR J10

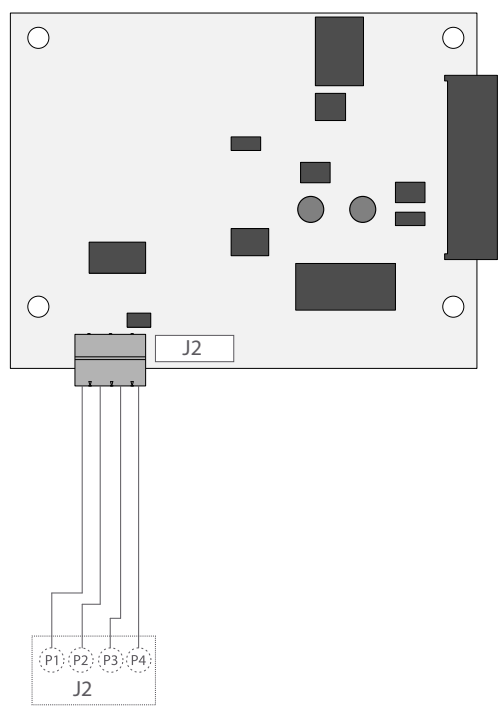
pin 1	RX
pin 2	TX
pin 3	GND

**SCHEME OPTIONAL RS485**



pin 1	RTX +
pin 2	RTX -
pin 5	EARTH

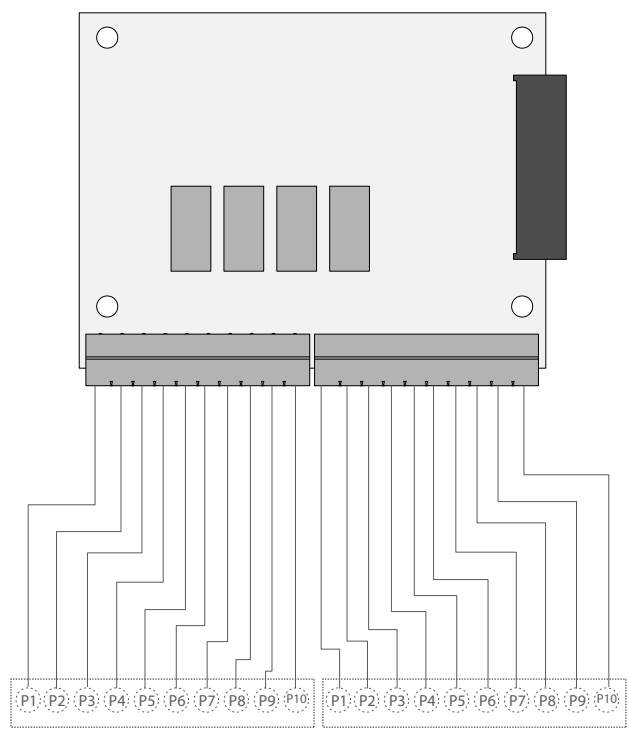
**SCHEME OPTIONAL 4-20MA / 0-10V ANALOG (DB9)**



**CONNECTOR J2**

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

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



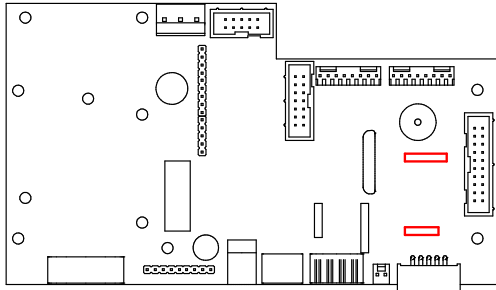
pin 1	RLY1_C	pin 1	IN1 -
pin 2	RLY1_NO	pin 2	IN1 +
pin 3	RLY2_C	pin 3	IN2 -
pin 4	RLY2_NO	pin 4	IN2 +
pin 5	RLY3_C	pin 5	IN3 -
pin 6	RLY3_NO	pin 6	IN3 +
pin 7	RLY4_C	pin 7	IN4 -
pin 8	RLY4_NO	pin 8	IN34 +
pin 9	+ 5V <sub>DC</sub>	pin 9	+ 5V <sub>DC</sub>
pin 10	GND	pin 10	GND

## 10. MOUNTING THE OPTIONALS

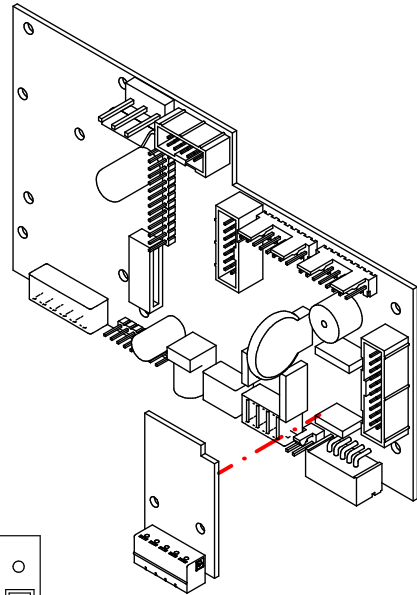
### RS485 / IP54

#### RS485

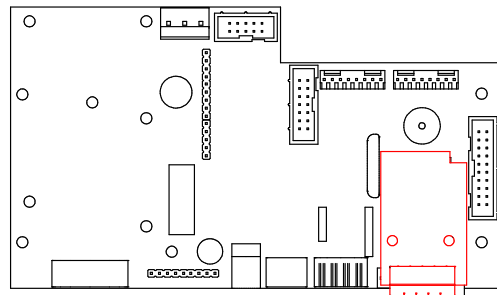
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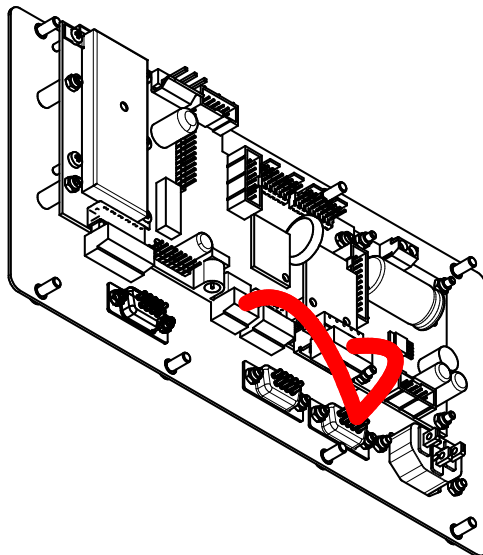
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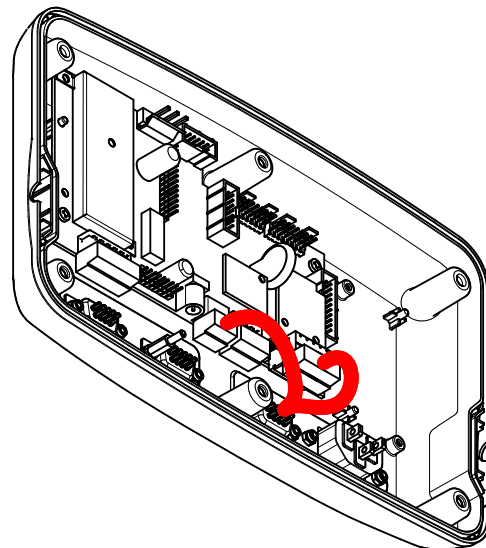
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4.

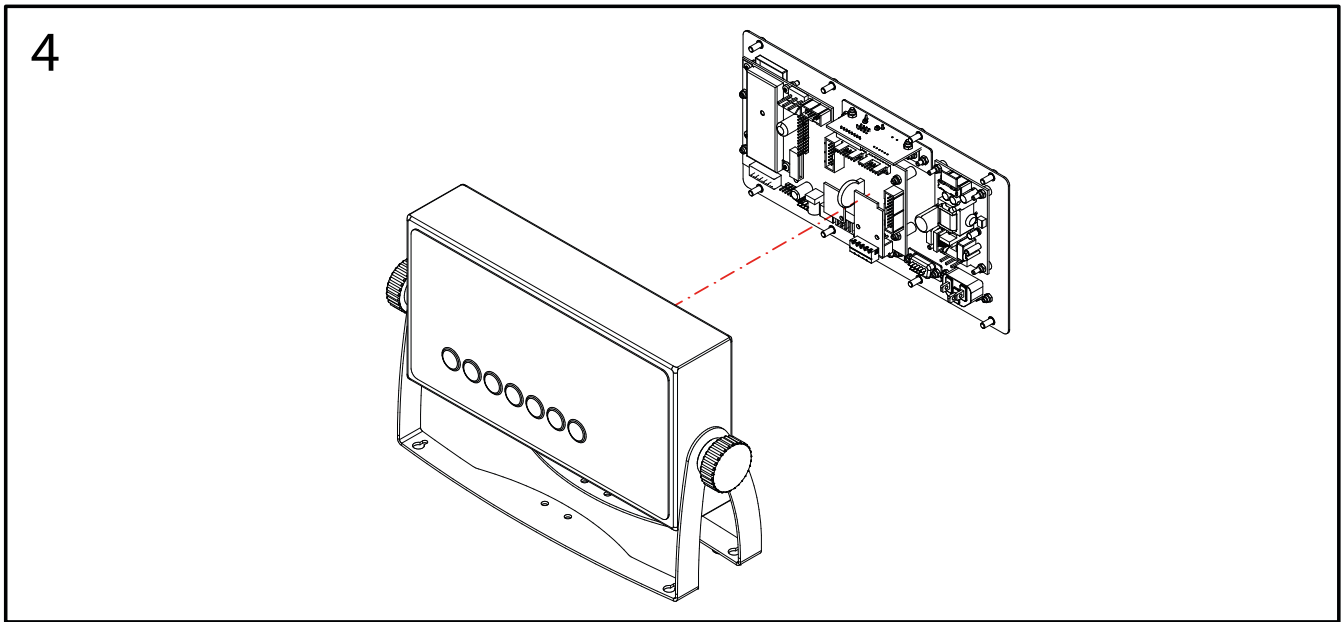
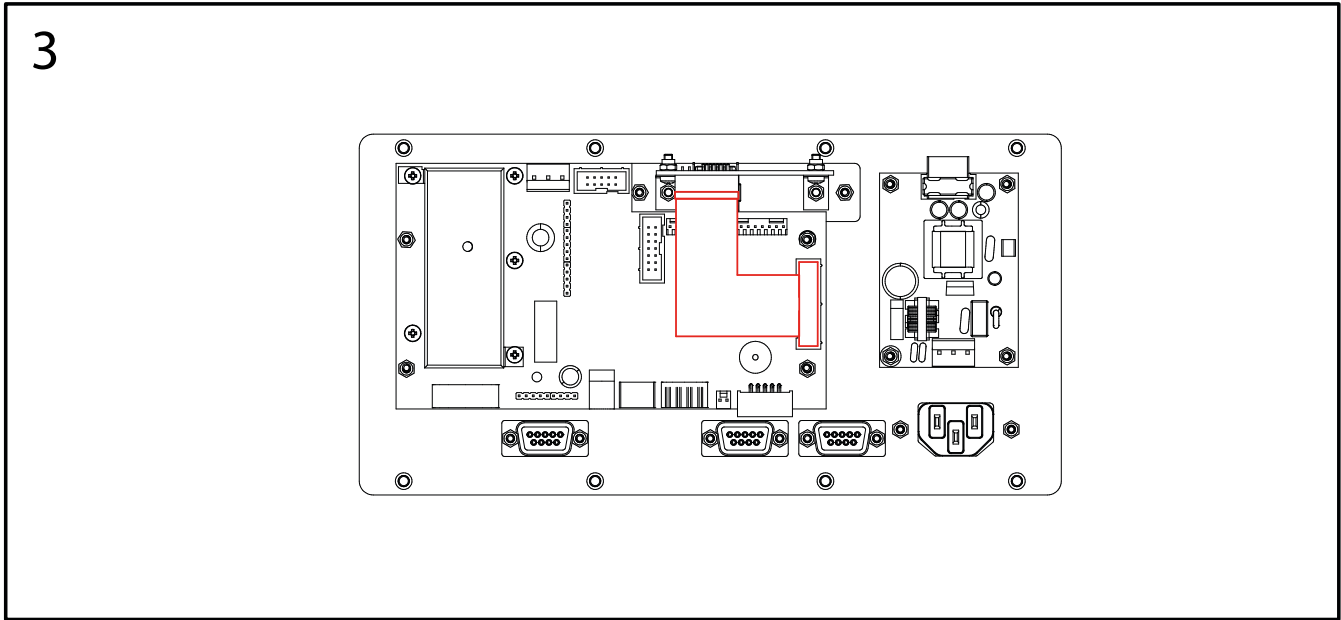
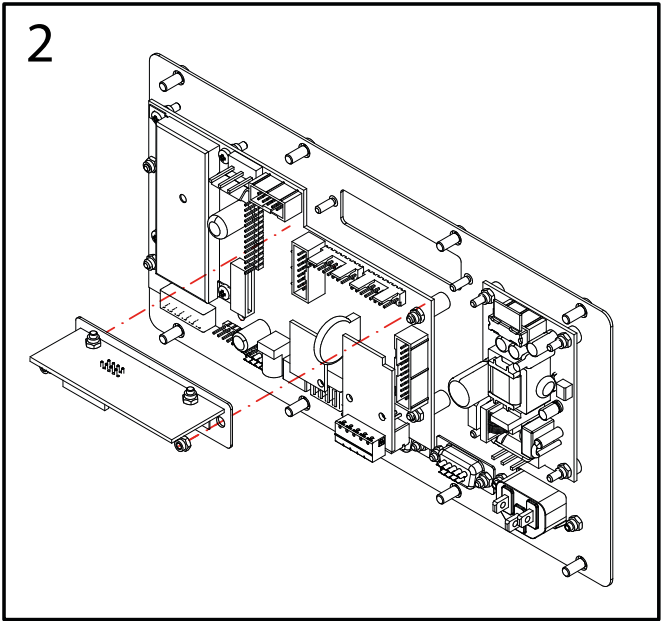
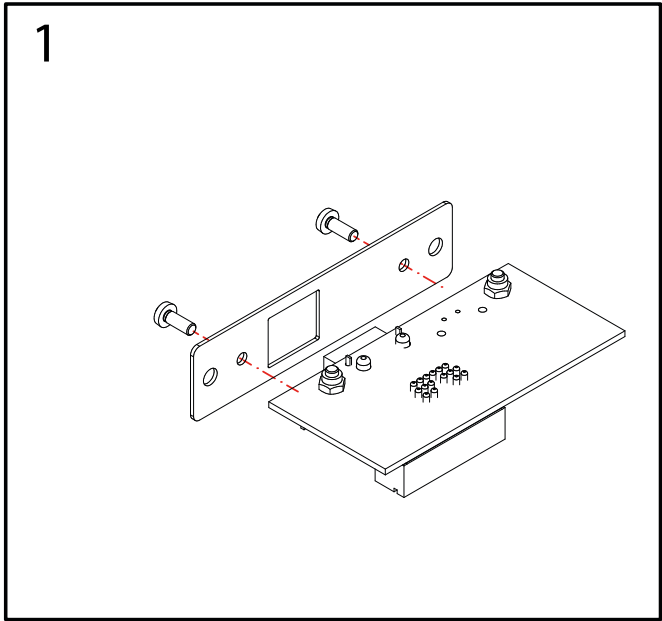


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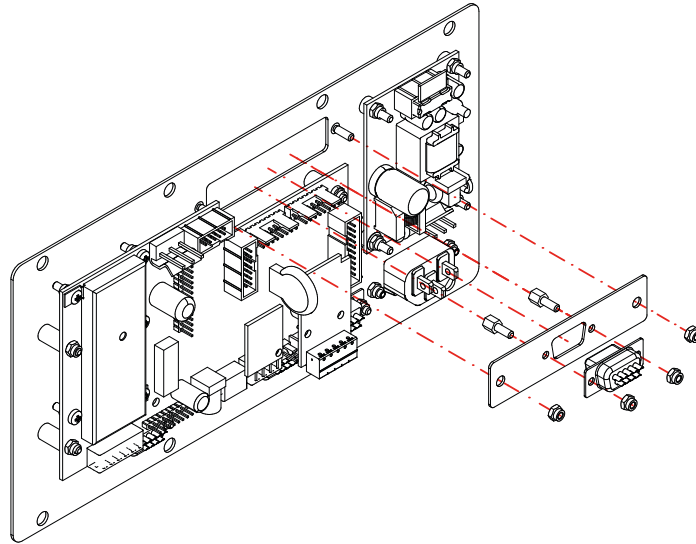


**ETHERNET FOR STAINLESS STEEL CASE IP54**

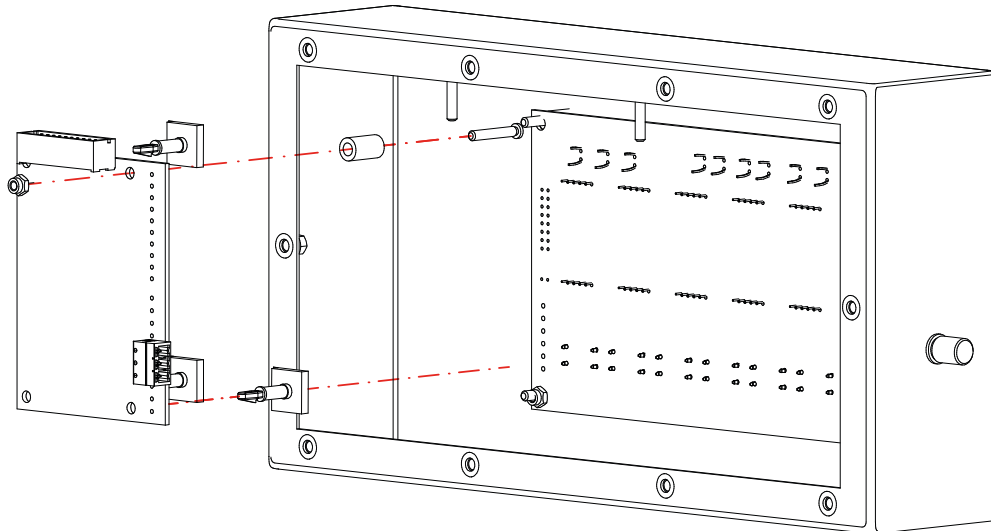


## 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP54

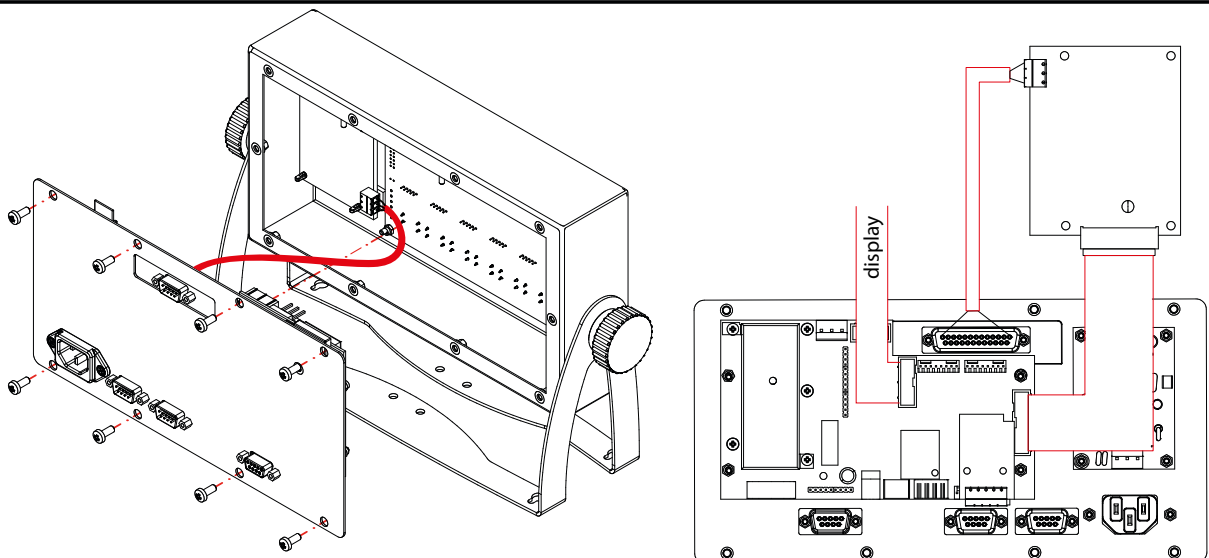
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2

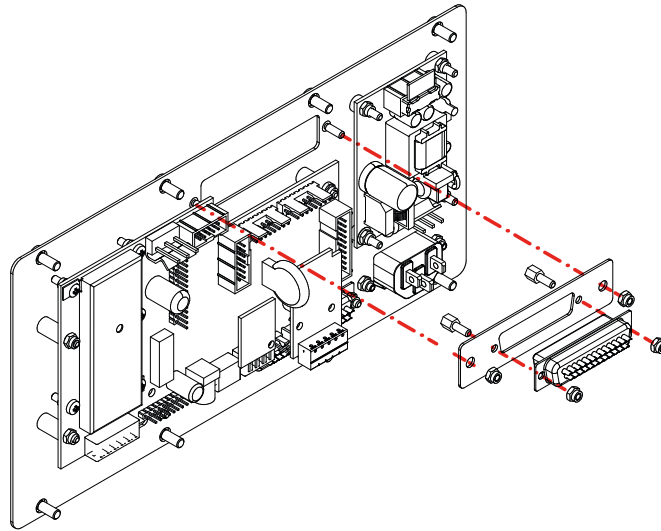


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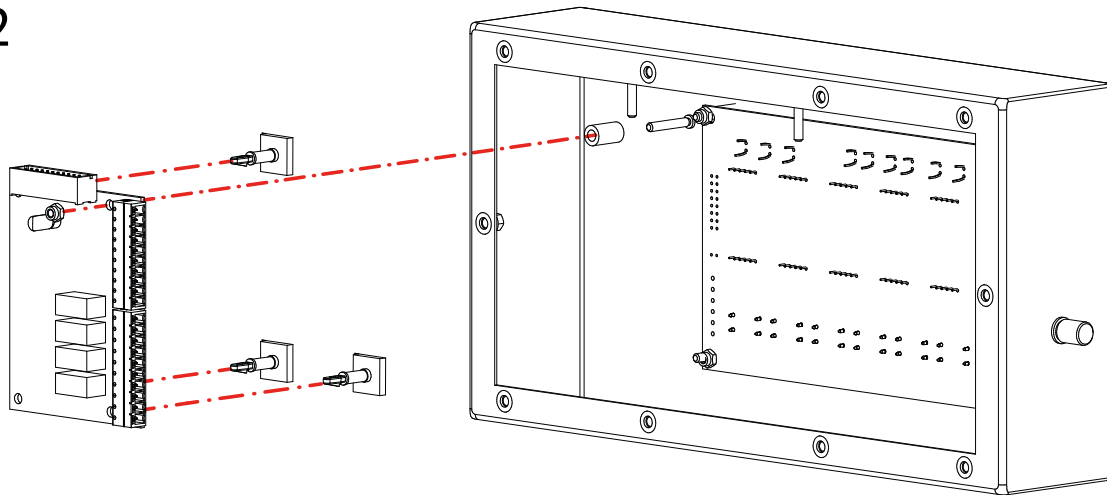


## RELAY FOR STAINLESS STEEL CASE IP54

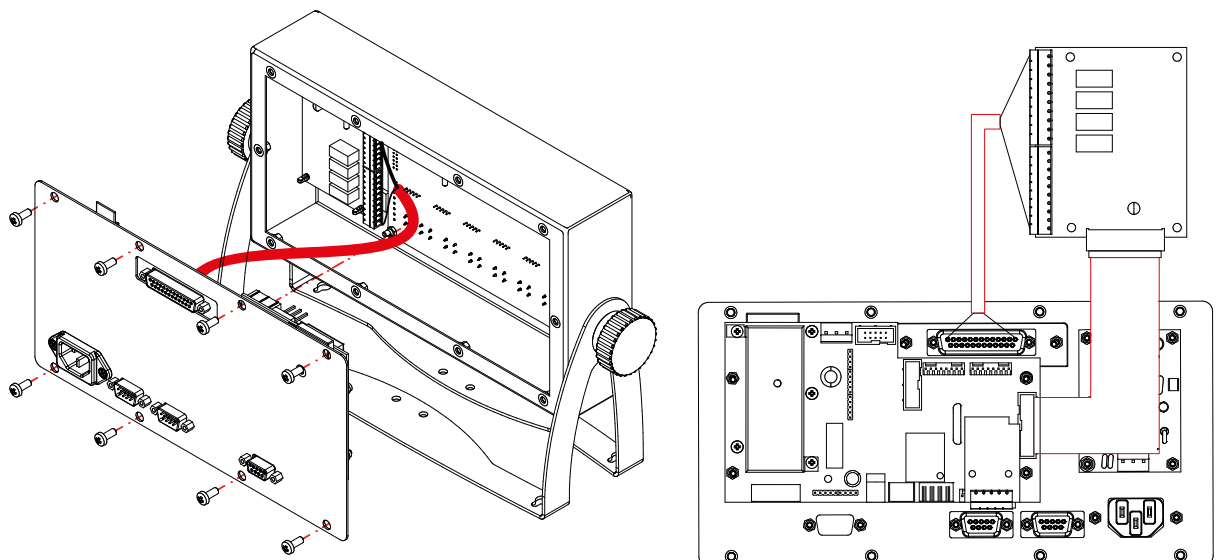
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2



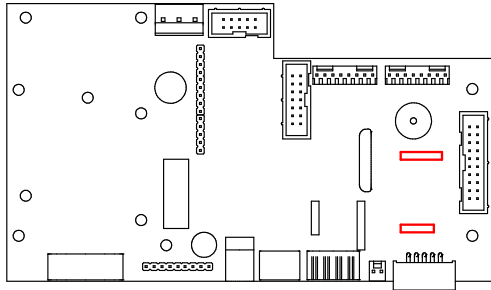
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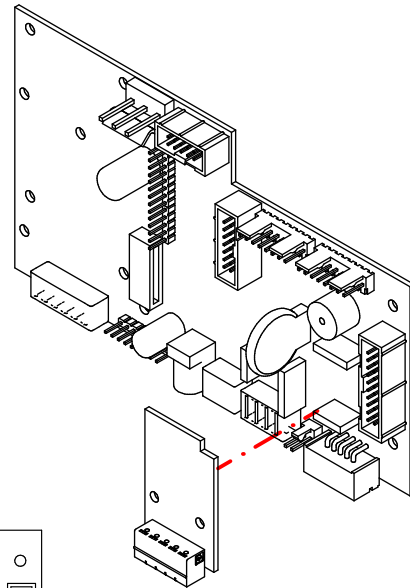
# RS485 / IP65

## RS485

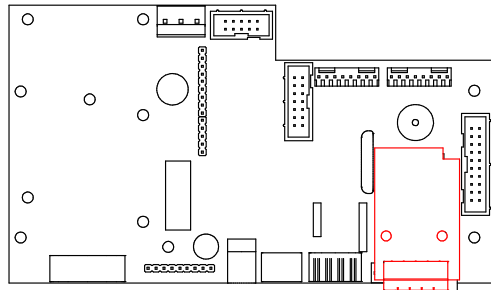
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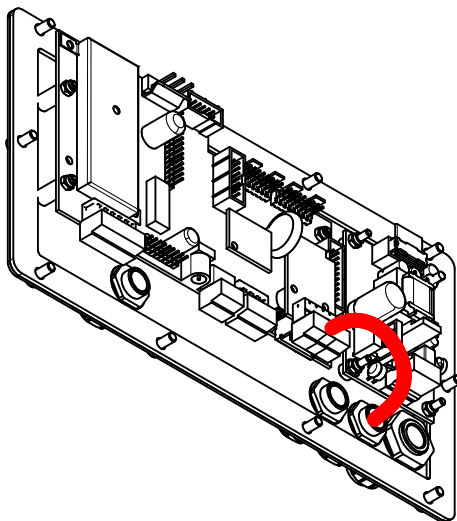
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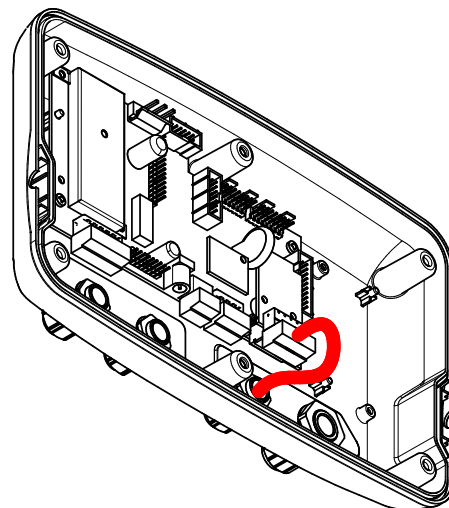
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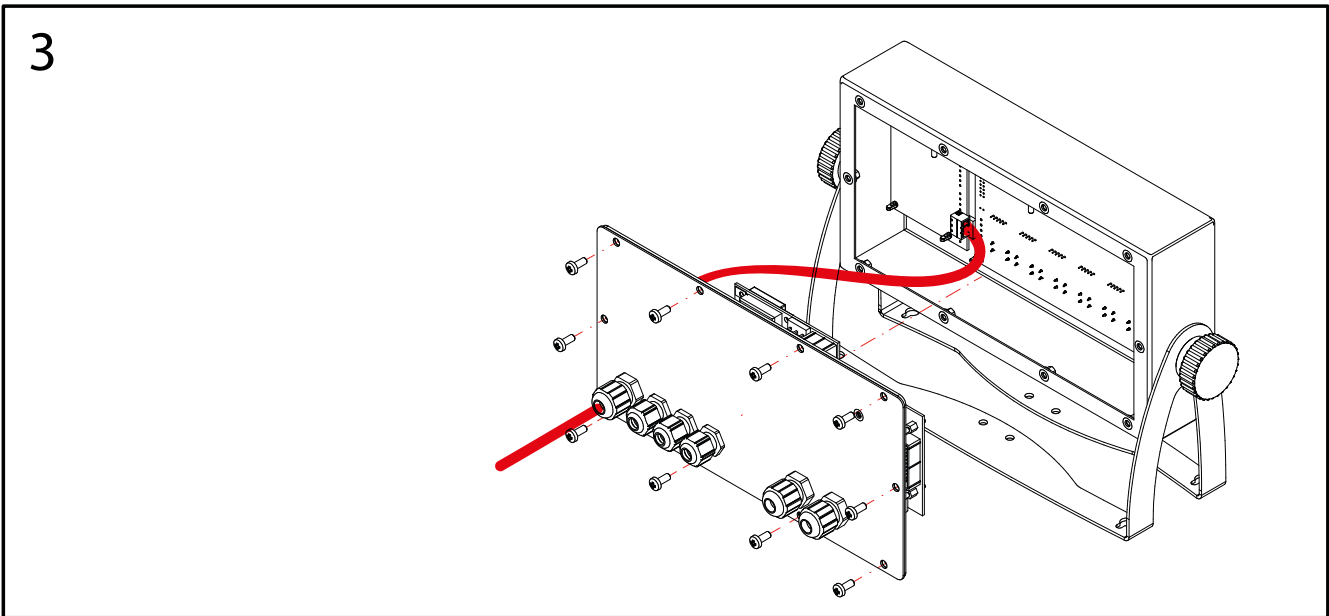
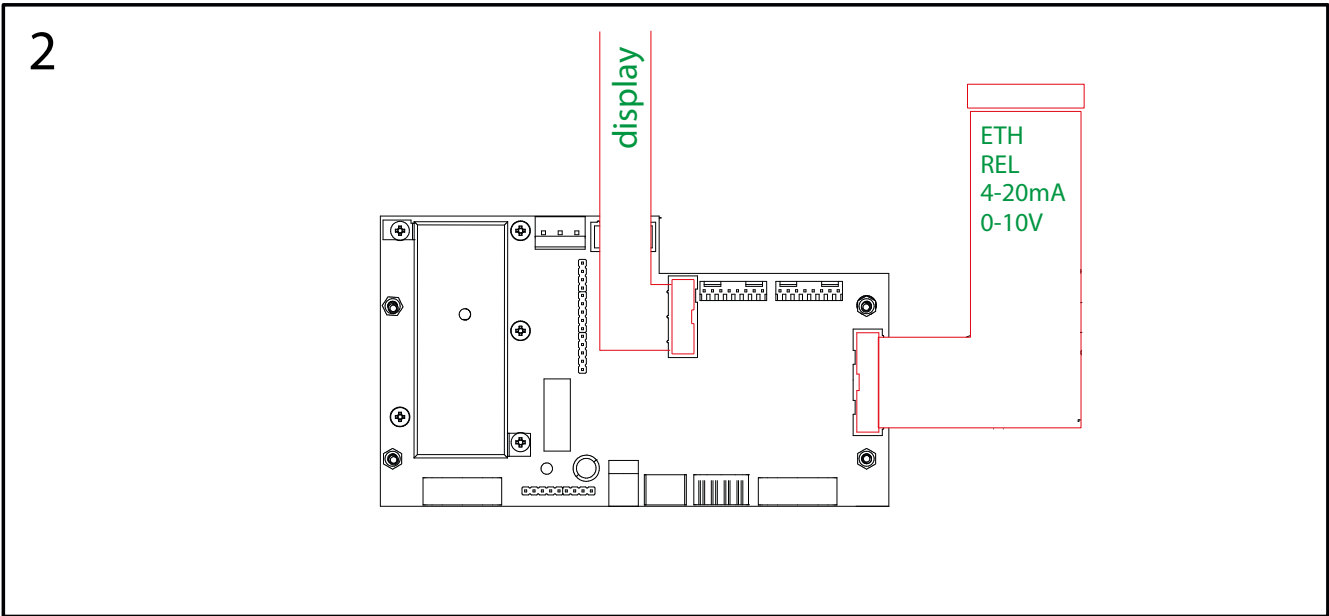
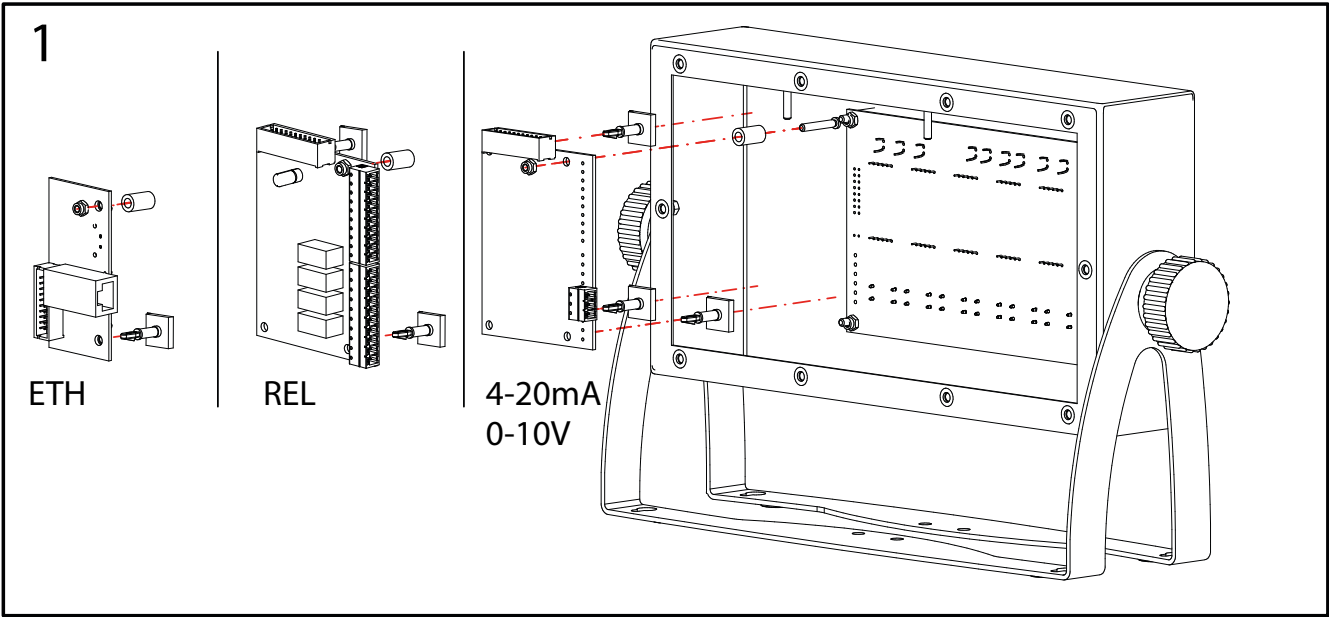
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5.



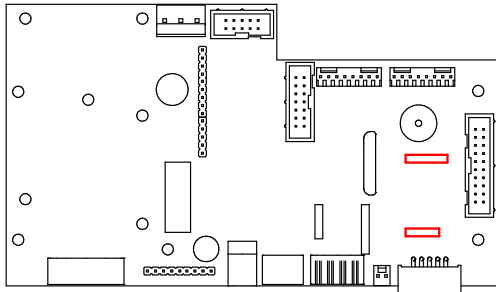
**ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP65**



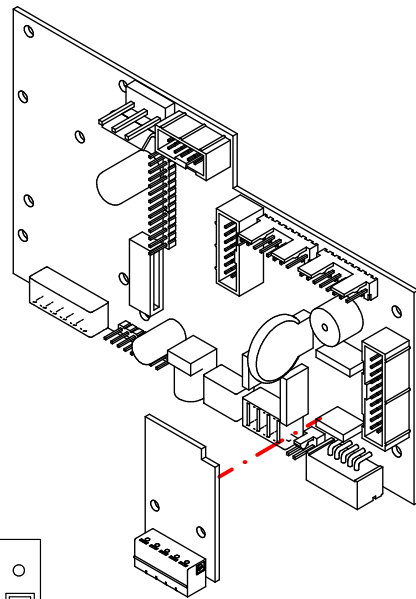
## RS485 / IP68

## RS485

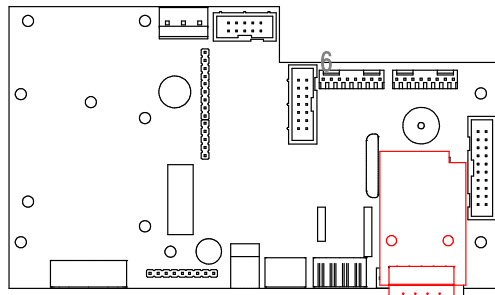
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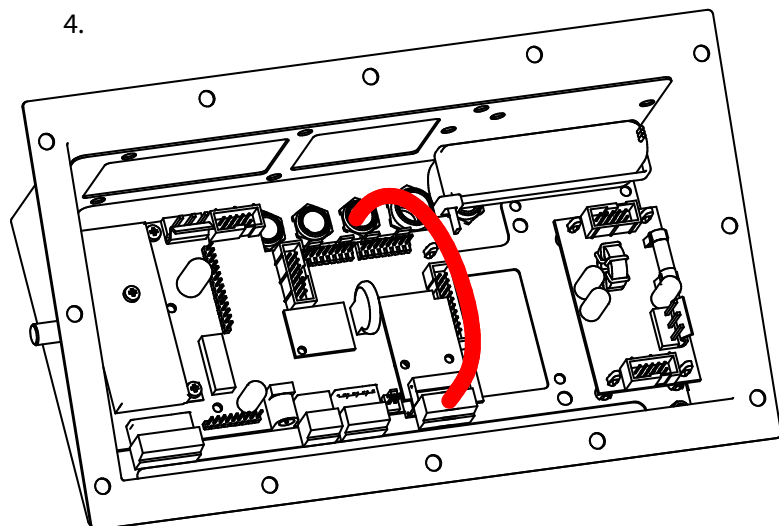
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3.

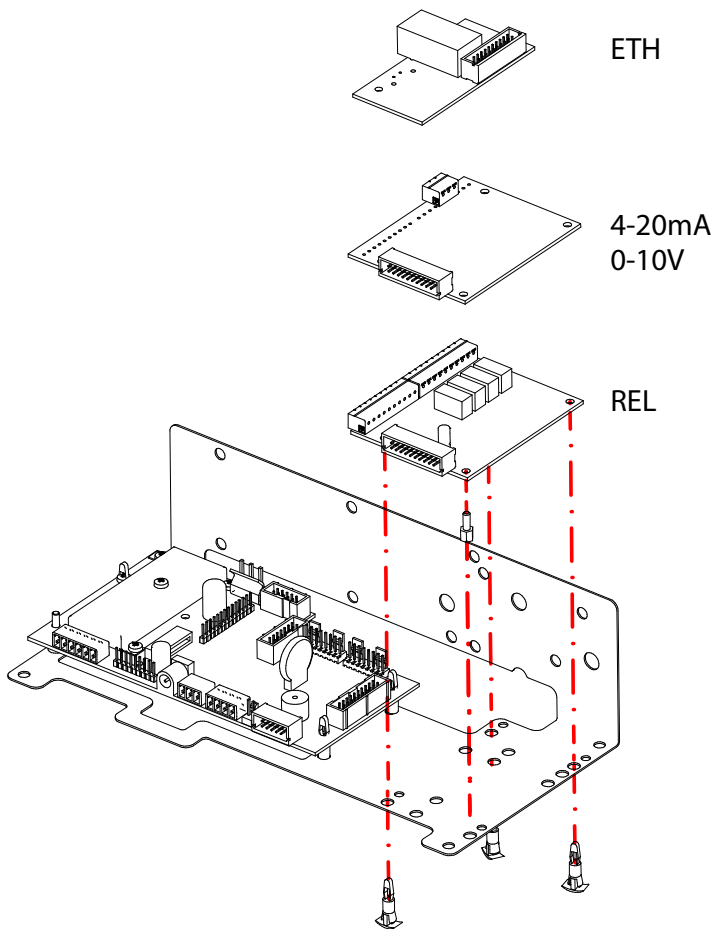


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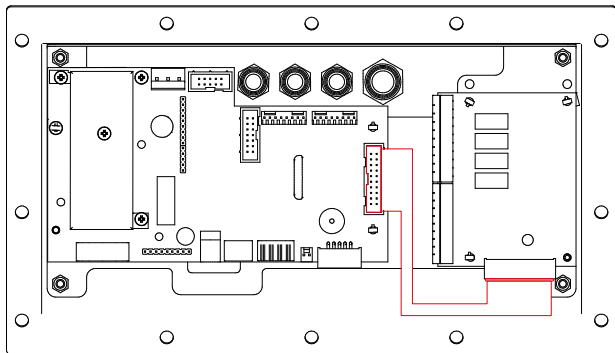


**ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP68**

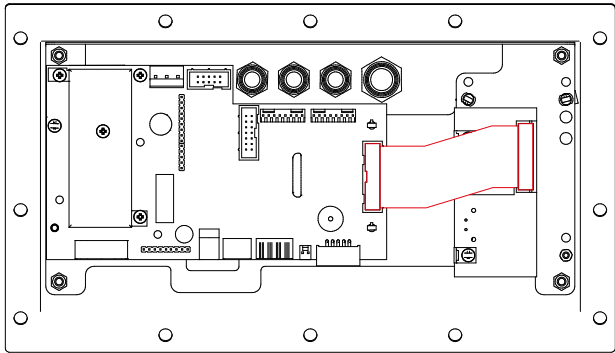
1



2a REL / 4-20mA  
0-10V

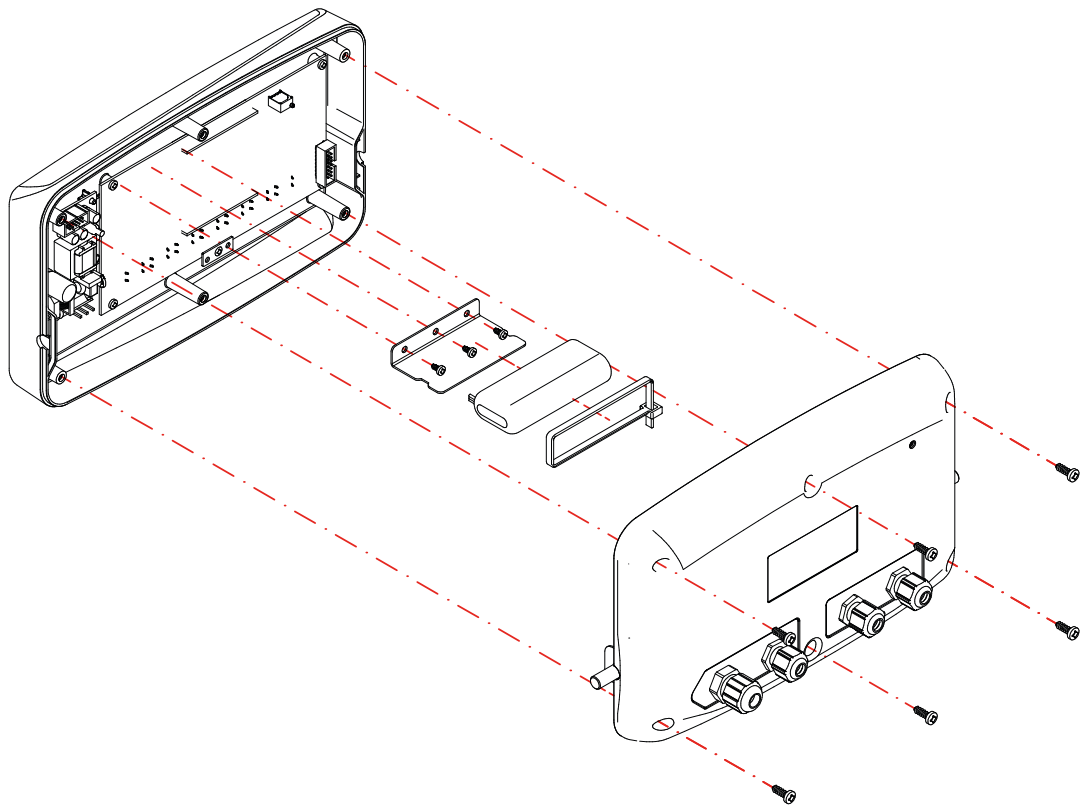


2b ETH

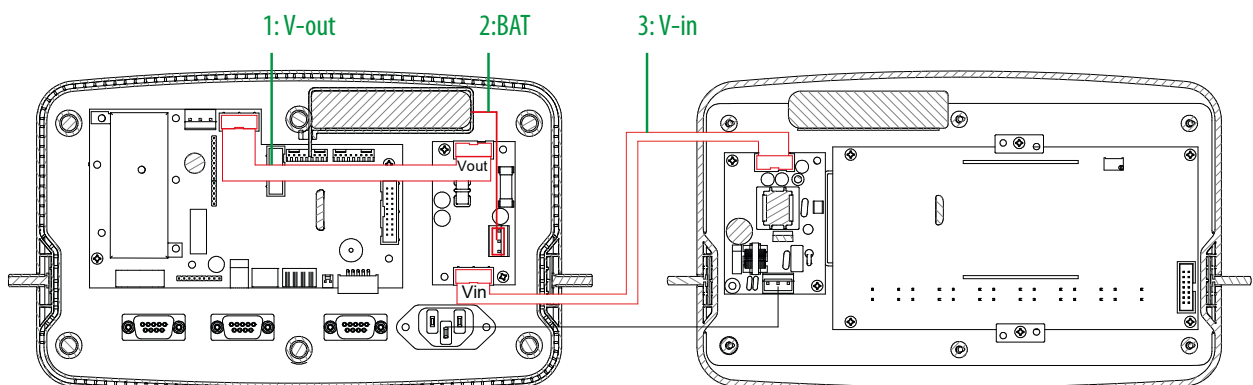


## BATTERY FOR ABS-CASE IP54 OR IP65

1

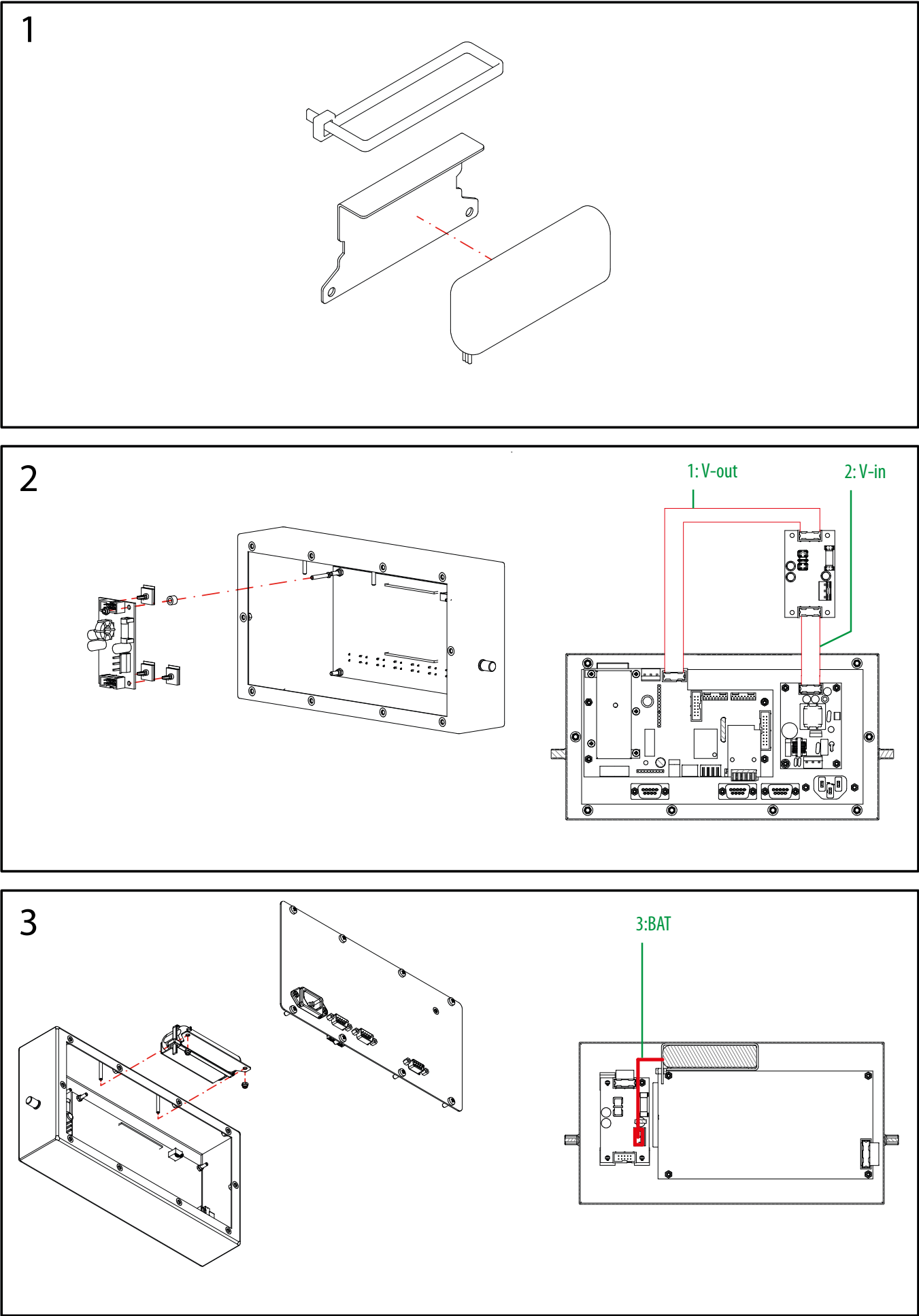


2



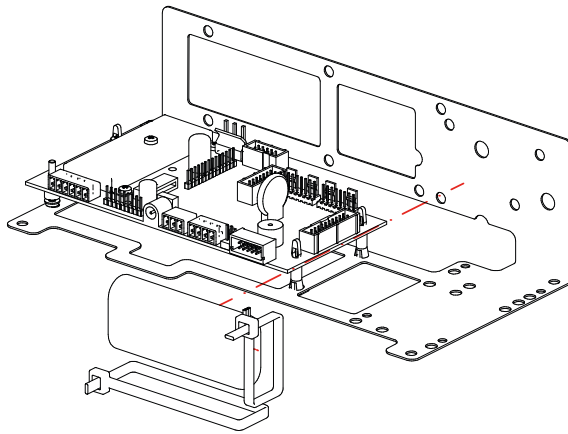


**BATTERY FOR STAINLESS STEEL CASE IP54 OR IP65**

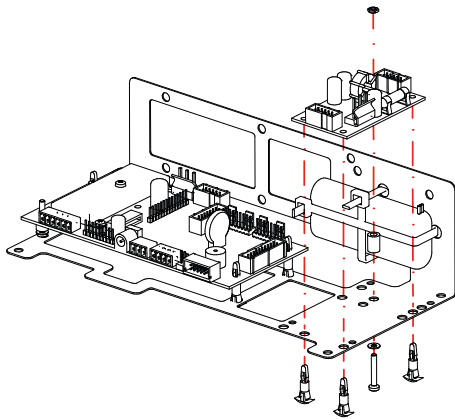


## BATTERY FOR STAINLESS STEEL CASE IP68

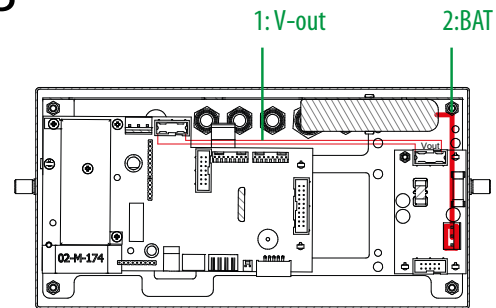
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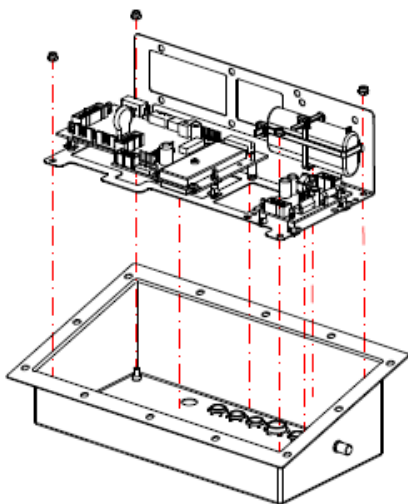
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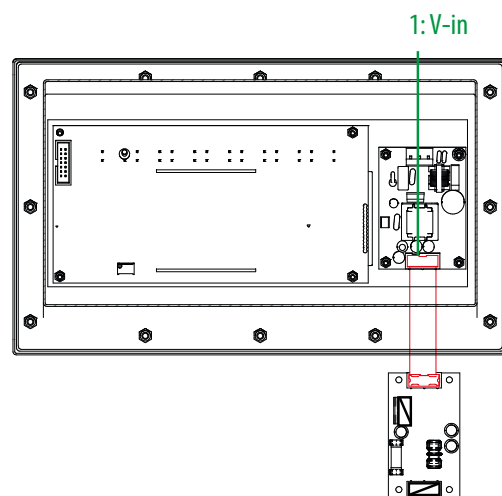
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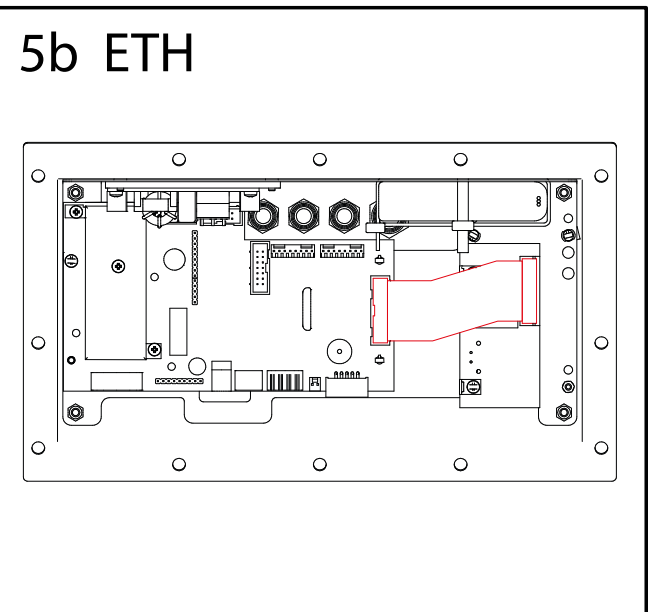
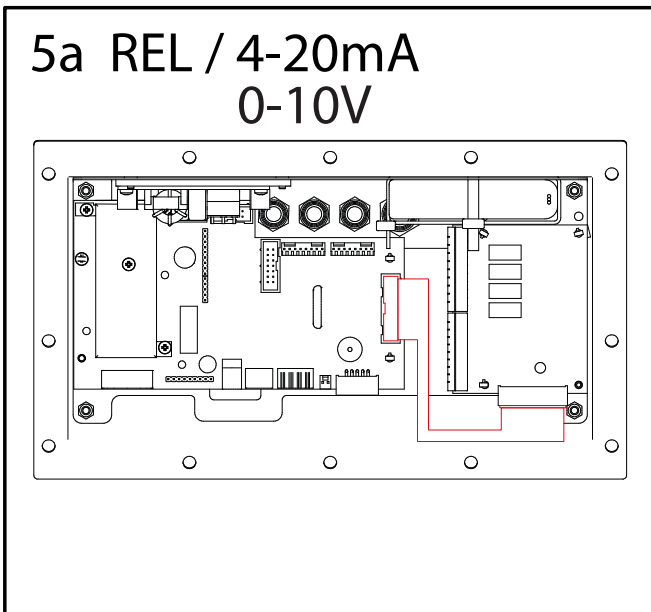
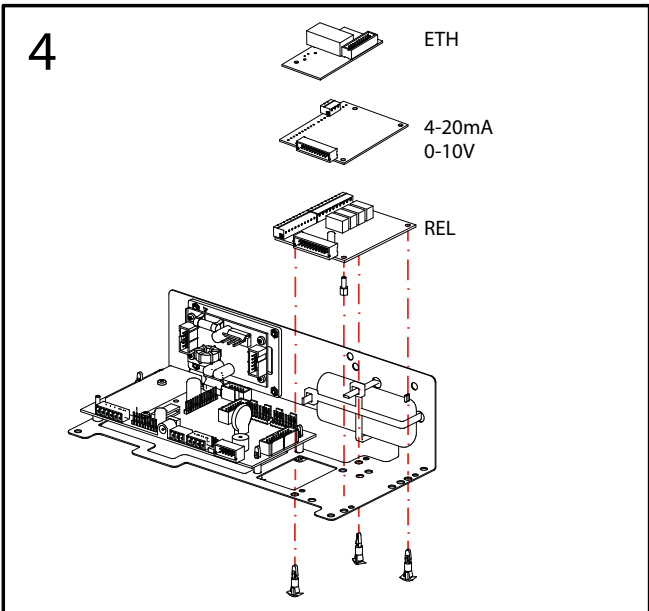
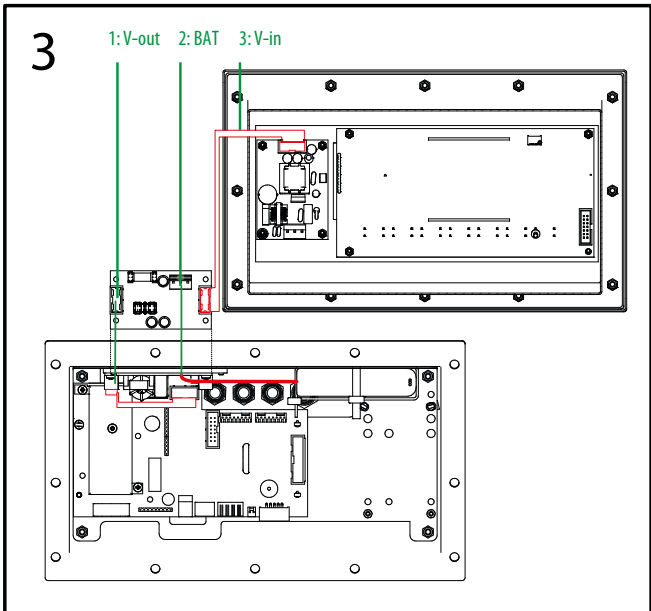
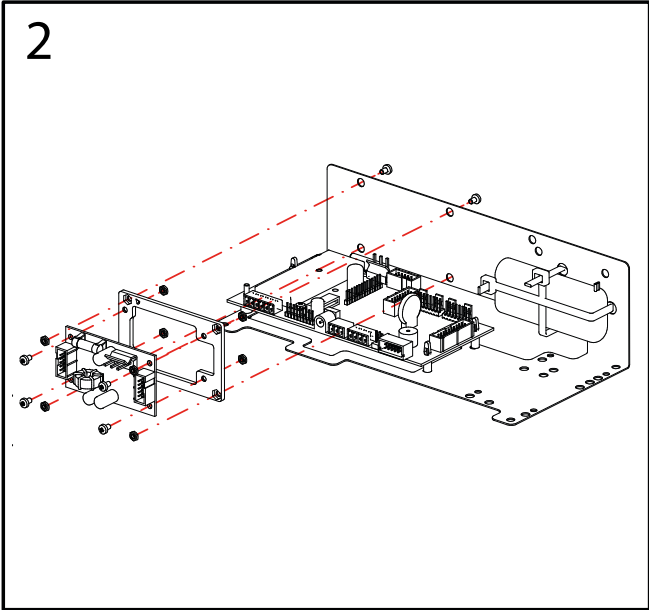
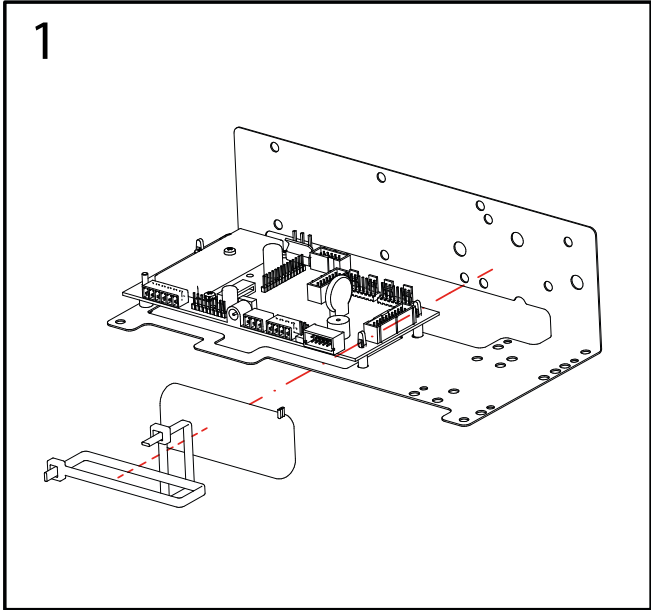
4



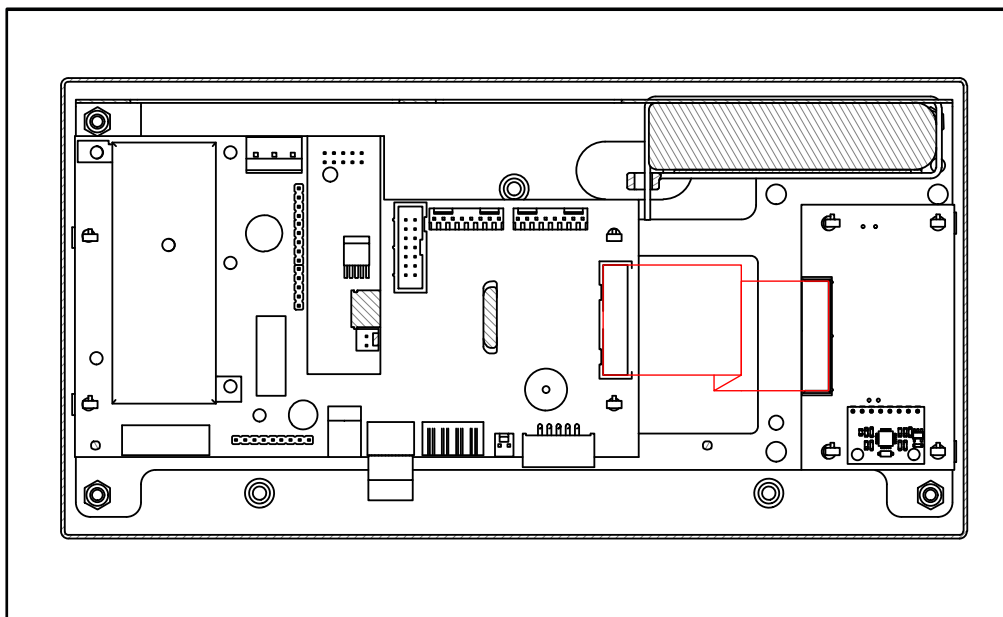
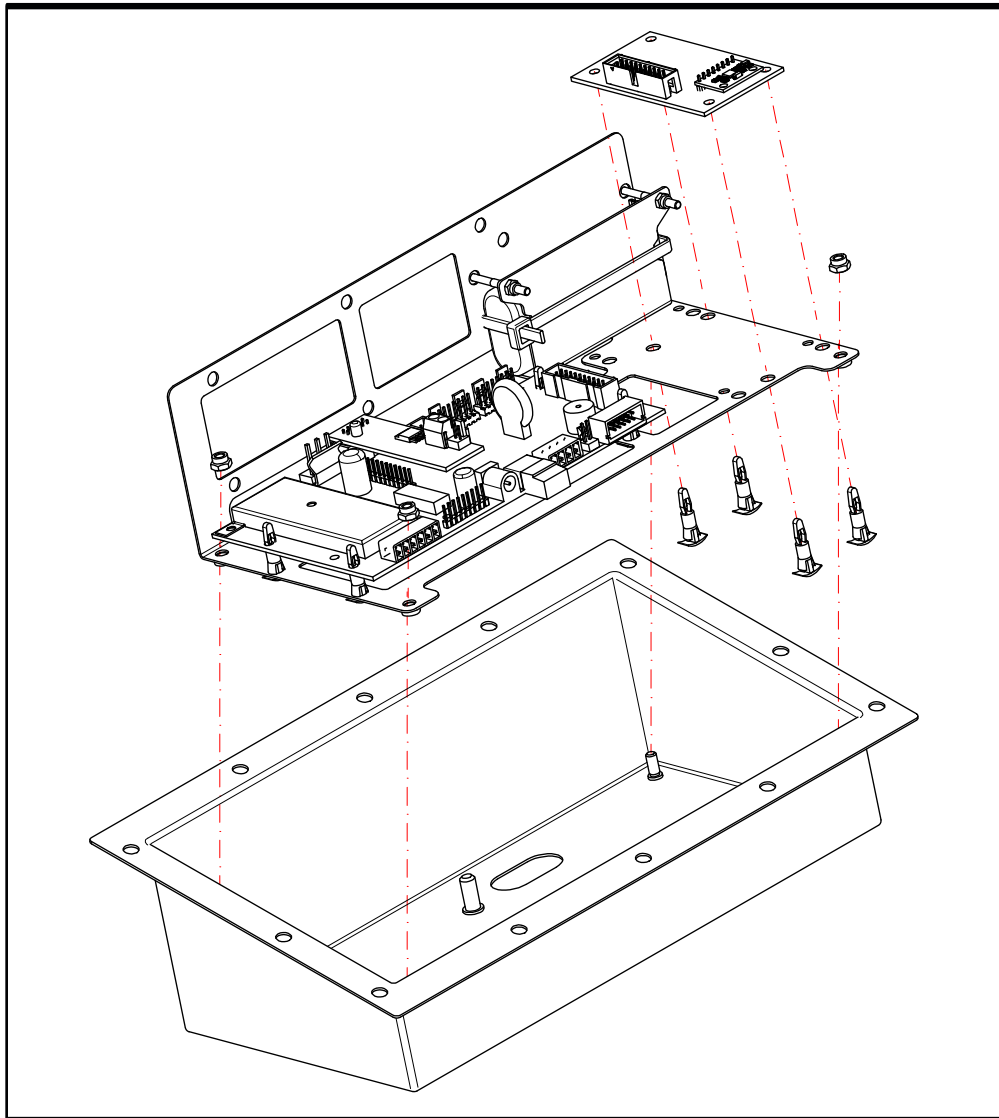
5



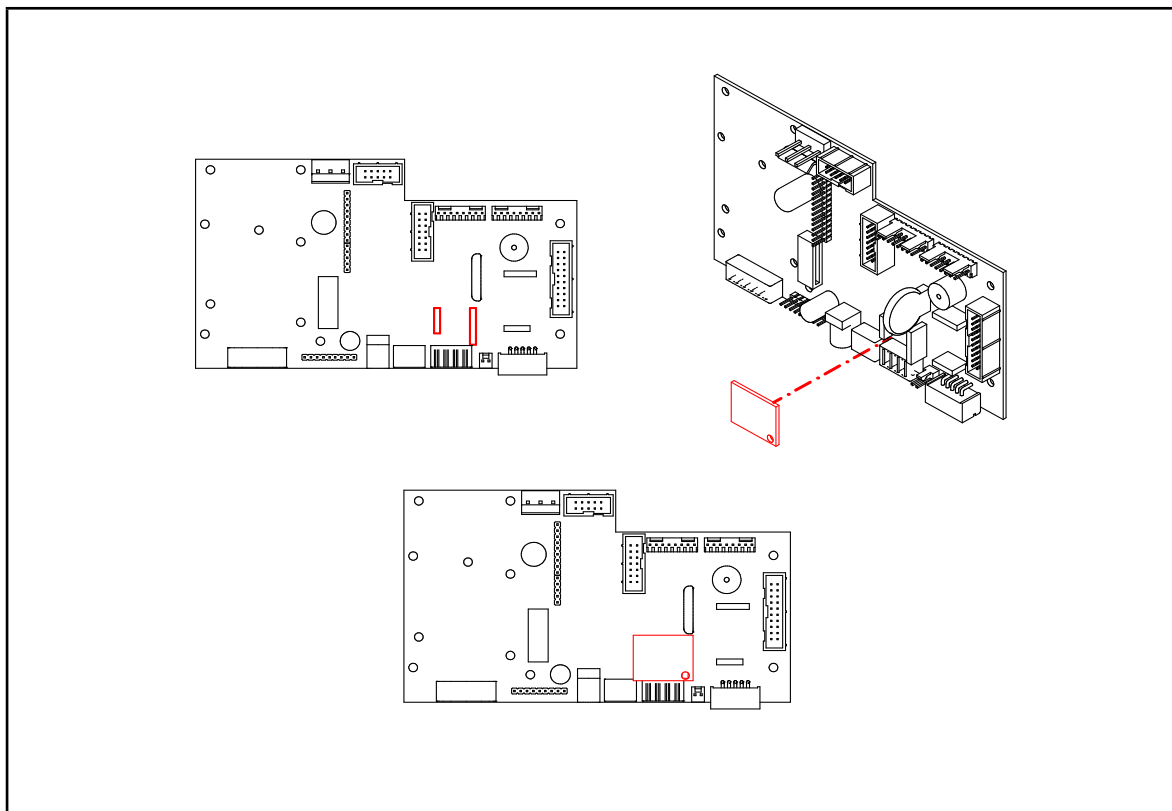
**BATTERY + ETHERNET OR RELAY OR 4-20mA / 0-10V FOR STAINLESS STEEL CASE IP68**



## 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 device.

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***)

Pol. Empordà Internacional Calle Molló, 3  
17469 VILAMALLA - (Girona) SPAIN  
T. (34) 972 527 212